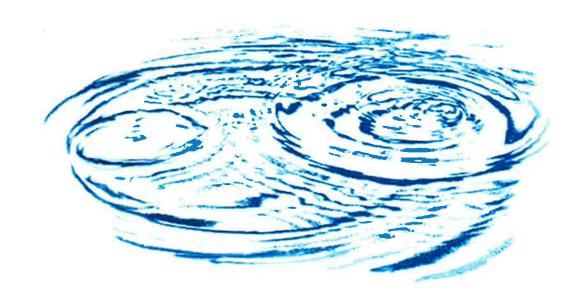


Urban Water Management Plan



June 2011

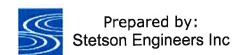


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Table I-2 Urban Water Management Plan checklist, organized by subject

		Calif. Water		
No.	UWMP requirement ^a	Code reference	Additional clarification	UWMP location
	NGENCY ^b			
35	Provide an urban water shortage contingency analysis that specifies	10632(a)		
	stages of action, including up to a 50-percent water supply reduction, and			
	an outline of specific water supply conditions at each stage			
36	Provide an estimate of the minimum water supply available during each of	10632(b)		
	the next three water years based on the driest three-year historic			
	sequence for the agency's water supply.			
37	Identify actions to be undertaken by the urban water supplier to prepare	10632(c)		
	for, and implement during, a catastrophic interruption of water supplies			
	including, but not limited to, a regional power outage, an earthquake, or			
	other disaster.			
38	Identify additional, mandatory prohibitions against specific water use	10632(d)		
	practices during water shortages, including, but not limited to, prohibiting			
	the use of potable water for street cleaning.			
39	Specify consumption reduction methods in the most restrictive stages.	10632(e)		
	Each urban water supplier may use any type of consumption reduction			
	methods in its water shortage contingency analysis that would reduce			
	water use, are appropriate for its area, and have the ability to achieve a			
	water use reduction consistent with up to a 50 percent reduction in water			
	supply.			
40	Indicated penalties or charges for excessive use, where applicable.	10632(f)		
41	Provide an analysis of the impacts of each of the actions and conditions	10632(g)		
	described in subdivisions (a) to (f), inclusive, on the revenues and			
	expenditures of the urban water supplier, and proposed measures to			
	overcome those impacts, such as the development of reserves and rate			
	adjustments.			
42	Provide a draft water shortage contingency resolution or ordinance.	10632(h)		
43	Indicate a mechanism for determining actual reductions in water use	10632(i)		
	pursuant to the urban water shortage contingency analysis.	.,		
DMMs				
26	Describe how each water demand management measures is being	10631(f)(1)	Discuss each DMM, even if it	is
	implemented or scheduled for implementation. Use the list provided.	·/·/	not currently or planned for	
			implementation. Provide any	
			appropriate schedules.	

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		Calif. Water		
No.	UWMP requirement ^a	Code reference	Additional clarification	UWMP location
27	Describe the methods the supplier uses to evaluate the effectiveness of DMMs implemented or described in the UWMP.	10631(f)(3)		
28	Provide an estimate, if available, of existing conservation savings on water use within the supplier's service area, and the effect of the savings on the ability to further reduce demand.	10631(f)(4)		
29	Evaluate each water demand management measure that is not currently being implemented or scheduled for implementation. The evaluation should include economic and non-economic factors, cost-benefit analysis, available funding, and the water suppliers' legal authority to implement the work.	10631(g)	See 10631(g) for additional wording.	
32	Include the annual reports submitted to meet the Section 6.2 requirements, if a member of the CUWCC and signer of the December 10, 2008 MOU.	10631(j)	Signers of the MOU that submit the biannual reports are deemed compliant with Items 28 and 29.	
EXTER	RNAL COORDINATION AND OUTREACH			
4	Coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.	10620(d)(2)		
6	Notify, at least 60 days prior to the public hearing on the plan required by Section 10642, any city or county within which the supplier provides water that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan. Any city or county receiving the notice may be consulted and provide comments.	10621(b)		
7	Provide supporting documentation that the UWMP or any amendments to, or changes in, have been adopted as described in Section 10640 et seq.	10621(c)		
54	Provide supporting documentation that the urban water management plan has been or will be provided to any city or county within which it provides water, no later than 60 days after the submission of this urban water management plan.	10635(b)		
55	Provide supporting documentation that the water supplier has encouraged active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan.	10642		
56	Provide supporting documentation that the urban water supplier made the plan available for public inspection and held a public hearing about the	10642		

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		Calif. Water		
No.	UWMP requirement ^a	Code reference	Additional clarification	UWMP location
	plan. For public agencies, the hearing notice is to be provided pursuant to			
	Section 6066 of the Government Code. The water supplier is to provide			
	the time and place of the hearing to any city or county within which the			
	supplier provides water. Privately-owned water suppliers shall provide an			
	equivalent notice within its service area.			
57	Provide supporting documentation that the plan has been adopted as	10642		
	prepared or modified.			
58	Provide supporting documentation as to how the water supplier plans to	10643		
	implement its plan.			
59	Provide supporting documentation that, in addition to submittal to DWR,	10644(a)		
	the urban water supplier has submitted this UWMP to the California State			
	Library and any city or county within which the supplier provides water			
	supplies a copy of its plan no later than 30 days after adoption. This also			
	includes amendments or changes.			
60	Provide supporting documentation that, not later than 30 days after filing a	10645		
	copy of its plan with the department, the urban water supplier has or will			
	make the plan available for public review during normal business hours			
	CLED WATER			
44	Provide information on recycled water and its potential for use as a water	10633		
	source in the service area of the urban water supplier. Coordinate with			
	local water, wastewater, groundwater, and planning agencies that operate			
	within the supplier's service area.			
45	Describe the wastewater collection and treatment systems in the	10633(a)		
	supplier's service area, including a quantification of the amount of			
	wastewater collected and treated and the methods of wastewater			
	disposal.			
46	Describe the quantity of treated wastewater that meets recycled water	10633(b)		
	standards, is being discharged, and is otherwise available for use in a			
	recycled water project.			
47	Describe the recycled water currently being used in the supplier's service	10633(c)		
	area, including, but not limited to, the type, place, and quantity of use.			
48	Describe and quantify the potential uses of recycled water, including, but	10633(d)		
	not limited to, agricultural irrigation, landscape irrigation, wildlife habitat			
	enhancement, wetlands, industrial reuse, groundwater recharge, indirect			
	potable reuse, and other appropriate uses, and a determination with			
	regard to the technical and economic feasibility of serving those uses.			

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		Calif. Water		
No.	UWMP requirement ^a	Code reference	Additional clarification	UWMP location
49	The projected use of recycled water within the supplier's service area at	10633(e)		
	the end of 5, 10, 15, and 20 years, and a description of the actual use of			
F 0	recycled water in comparison to uses previously projected.	40000(f)		
50	Describe the actions, including financial incentives, which may be taken to encourage the use of recycled water, and the projected results of these	10633(f)		
	actions in terms of acre-feet of recycled water used per year.			
51	Provide a plan for optimizing the use of recycled water in the supplier's	10633(g)		
01	service area, including actions to facilitate the installation of dual	10000(g)		
	distribution systems, to promote recirculating uses, to facilitate the			
	increased use of treated wastewater that meets recycled water standards,			
	and to overcome any obstacles to achieving that increased use.			
RELIA	BILITY			
22	Describe the reliability of the water supply and vulnerability to seasonal or	10631(c)(1)		
	climatic shortage and provide data for (A) an average water year, (B) a			
	single dry water year, and (C) multiple dry water years.			
23	For any water source that may not be available at a consistent level of	10631(c)(2)		
	use - given specific legal, environmental, water quality, or climatic factors			
	- describe plans to supplement or replace that source with alternative			
	sources or water demand management measures, to the extent			
	practicable.			
53	Assess the water supply reliability during normal, dry, and multiple dry	10635(a)		
	water years by comparing the total water supply sources available to the			
	water supplier with the total projected water use over the next 20 years, in			
	five-year increments, for a normal water year, a single dry water year, and multiple dry water years. Base the assessment on the information			
	compiled under Section 10631, including available data from state,			
	regional, or local agency population projections within the service area of			
	the urban water supplier.			
SERV	ICE AREA			
8	Describe the water supplier service area.	10631(a)		
9	Describe the climate and other demographic factors of the service area of	10631(a)		
	the supplier	()		
10	Indicate the current population of the service area	10631(a)	Provide the most recent	
			population data possible. Use	
			the method described in	

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		Calif. Water		
No.	UWMP requirement ^a	Code reference	Additional clarification	UWMP location
			"Baseline Daily Per Capita	
			Water Use". See Section M.	
11	Provide population projections for 2015, 2020, 2025, and 2030, based on	10631(a)	2035 and 2040 can also be	
	data from State, regional, or local service area population projections.		provided to support consistency	
			with Water Supply Assessments	
			and Written Verification of	
			Water Supply documents.	
12	Describe other demographic factors affecting the supplier's water	10631(a)		
	management planning.			
WATE	R CONSERVATION			
1	Provide baseline daily per capita water use, urban water use target,	10608.20(e)		
	interim urban water use target, and compliance daily per capita water use,			
	along with the bases for determining those estimates, including			
	references to supporting data.			
`	Include an assessment of present and proposed future measures,	10608.36		
	programs, and policies to help achieve the water use reductions.			
3	Report progress in meeting urban water use targets using the	10608.40		
	standardized form.			
WATE	R DEMANDS			
25	Quantify past, current, and projected water use, identifying the uses	10631(e)(1)	Consider 'past' to be 2005,	
	among water use sectors, for the following: (A) single-family residential,		present to be 2010, and	
	(B) multifamily, (C) commercial, (D) industrial, (E) institutional and		projected to be 2015, 2020,	
	governmental, (F) landscape, (G) sales to other agencies, (H) saline		2025, and 2030. Provide	
	water intrusion barriers, groundwater recharge, conjunctive use, and (I)		numbers for each category for	
	agriculture.		each of these years.	
34	Include projected water use for single-family and multifamily residential	10631.1(a)		
	housing needed for lower income households, as identified in the housing			
	element of any city, county, or city and county in the service area of the			
	supplier.			
WATE	R SUPPLY			
5	Describe water management tools and options to maximize resources	10620(f)		
	and minimize the need to import water from other regions.			
13	Identify and quantify the existing and planned sources of water available	10631(b)	The 'existing' water sources	
	for 2015, 2020, 2025, and 2030.		should be for the same year as	
			the "current population" in line	

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		Calif. Water		
No.	UWMP requirement ^a	Code reference	Additional clarification	UWMP location
			10. 2035 and 2040 can also be	
			provided.	
14	Indicate whether groundwater is an existing or planned source of water	10631(b)	Source classifications are:	
	available to the supplier. If yes, then complete 15 through 21 of the		surface water, groundwater,	
	UWMP Checklist. If no, then indicate "not applicable" in lines 15 through		recycled water, storm water,	
	21 under the UWMP location column.		desalinated sea water,	
			desalinated brackish	
			groundwater, and other.	
15	Indicate whether a groundwater management plan been adopted by the	10631(b)(1)		
	water supplier or if there is any other specific authorization for			
	groundwater management. Include a copy of the plan or authorization.			
16	Describe the groundwater basin.	10631(b)(2)		
17	Indicate whether the groundwater basin is adjudicated? Include a copy of	10631(b)(2)		
	the court order or decree.			
18	Describe the amount of groundwater the urban water supplier has the	10631(b)(2)		
	legal right to pump under the order or decree. If the basin is not			
	adjudicated, indicate "not applicable" in the UWMP location column.			
19	For groundwater basins that are not adjudicated, provide information as to	10631(b)(2)		
	whether DWR has identified the basin or basins as overdrafted or has			
	projected that the basin will become overdrafted if present management			
	conditions continue, in the most current official departmental bulletin that			
	characterizes the condition of the groundwater basin, and a detailed			
	description of the efforts being undertaken by the urban water supplier to			
	eliminate the long-term overdraft condition. If the basin is adjudicated,			
	indicate "not applicable" in the UWMP location column.			
20	Provide a detailed description and analysis of the location, amount, and	10631(b)(3)		
	sufficiency of groundwater pumped by the urban water supplier for the			
	past five years			
21	Provide a detailed description and analysis of the amount and location of	10631(b)(4)	Provide projections for 2015,	
	groundwater that is projected to be pumped.		2020, 2025, and 2030.	
24	Describe the opportunities for exchanges or transfers of water on a short-	10631(d)		
	term or long-term basis.			
30	Include a detailed description of all water supply projects and programs	10631(h)	·	
	that may be undertaken by the water supplier to address water supply			
	reliability in average, single-dry, and multiple-dry years, excluding demand			
	management programs addressed in (f)(1). Include specific projects,			

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No.	UWMP requirement ^a	Calif. Water Code reference	Additional clarification	UWMP location
	describe water supply impacts, and provide a timeline for each project.			
31	Describe desalinated water project opportunities for long-term supply, including, but not limited to, ocean water, brackish water, and groundwater.	10631(i)		
33	Provide documentation that either the retail agency provided the wholesale agency with water use projections for at least 20 years, if the UWMP agency is a retail agency, OR, if a wholesale agency, it provided its urban retail customers with future planned and existing water source available to it from the wholesale agency during the required water-year types	10631(k)	Average year, single dry year, multiple dry years for 2015, 2020, 2025, and 2030.	
52	Provide information, to the extent practicable, relating to the quality of existing sources of water available to the supplier over the same five-year increments, and the manner in which water quality affects water management strategies and supply reliability	10634	For years 2010, 2015, 2020, 2025, and 2030	

a The UWMP Requirement descriptions are general summaries of what is provided in the legislation. Urban water suppliers should review the exact legislative wording prior to submitting its UWMP.

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b The Subject classification is provided for clarification only. A water supplier is free to address the UWMP Requirement anywhere with its UWMP, but is urged to provide clarification to DWR to facilitate review for completeness.

Chapter 1

INTRODUCTION

1.1 URBAN WATER MANAGEMENT PLAN

Section 10617. "Urban Water Supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually. An urban water supplier includes a supplier or contractor for water, regardless of the basis of right, which distributes or sells for ultimate resale to customers.

This report was prepared in accordance with the California Urban Water Management Planning Act (Act)* which became effective on January 1, 1985 (Appendix A.1). The Act requires every "urban water supplier" to prepare and adopt an Urban Water Management Plan (hereinafter Plan or Management Plan), and to periodically review its Plan at least once every five years and make any amendments or changes which are indicated by the review. The primary objective of the Act is to direct urban water suppliers to evaluate their existing water conservation efforts and, to the extent practicable, to review and implement alternative and supplemental water conservation measures. The Act is directed primarily at retail water purveyors where programs can be immediately implemented upon the consumer. Urban water suppliers that indirectly provide water to customers have the option of either adopting an individual Plan or participating in area-wide, regional, watershed or basin-wide Plans.

Upper San Gabriel Valley Municipal Water District's (Upper District) Plan is an update for the year 2010 and reviews the activities of Upper District as a wholesale water supplier in the Main San Gabriel Basin (Main Basin). The Plan describes the operations of the Main Basin management, which achieve the maximum practicable conservation and efficient use of the water resources of the area, both local and imported.

^{*} Water Code Sections 10610 through 10656

1.2 AGENCY COORDINATION, PUBLIC PARTICIPATION AND PLAN ADOPTION

Section 10620

- (a) Every urban water supplier shall prepare and adopt an urban water management plan in the manner set forth in Article 3 (commencing with Section 10640).
- (b) Every person that becomes an urban water supplier shall adopt an urban water management plan within one year after it has become an urban water supplier.
- (c) An urban water supplier indirectly providing water shall not include planning elements in its water management plan as provided in Article 2 (commencing with Section 10630) that would be applicable to urban water suppliers or public agencies directly providing water, or to their customers, without the consent of those suppliers or public agencies.
- (d) (1) An urban water supplier may satisfy the requirements of this part by participation in area wide, regional, watershed, or basin wide urban water management planning where those plans will reduce preparation costs and contribute to the achievement of conservation and efficient water use.
- (2) Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.
- (e) The urban water supplier may prepare the plan with its own staff, by contract, or in cooperation with other governmental agencies.

Section 10621

(b) Every urban water supplier required to prepare a plan pursuant to this part shall, at least 60 days prior to the public hearing on the plan required by Section 10642, notify any city or county within which the supplier provides water supplies that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan. The urban water supplier may consult with, and obtain comments from, any city or county that receives notices pursuant to this subdivision.

Section 10635

(b) The urban water supplier shall provide that portion of its urban water management plan prepared pursuant to this article to any city or county within which it provides water supplies no later than 60 days after submission of its urban water management plan.

Section 10642

Each urban water supplier shall encourage the active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan. Prior to adopting a plan, the urban water supplier shall make the plan available for public inspection and shall hold a public hearing thereon. Prior to the hearing, notice of the time and place of hearing shall be published within the jurisdiction of the publicly owned water supplier pursuant to Section 6066 of the Government Code. The urban water supplier shall provide notice of the time and place of hearing to any city or county within which the supplier provides water supplies. A privately owned water supplier shall provide an equivalent notice within its service area. After the hearing, the plan shall be adopted as prepared or as modified after the hearing.

Section 10644

(a) An urban water supplier shall file with the department and any city or county within which the supplier provides water supplies a copy of its plan no later than 30 days after adoption.

Section 10645

Not later than 30 days after filing a copy of its plan with the department, the urban water

supplier and the department shall make the plan available for public review during normal business hours.

Upper District is a wholesale water supplier that provides treated imported water to its member agencies and untreated imported water to replenish groundwater supplies of the Main Basin. Main San Gabriel Basin Watermaster is a Court appointed agency which has the authority to manage Main Basin surface and groundwater supplies. Upper District notified its sub-agencies (including Cities within its service area) and public agencies that share a common source of supply of the preparation of Upper District 2010 Urban Water Management Plan on August 23, 2010. Upper District provided notification letters to the agencies listed in Appendix B.1. Upper District's subagencies, Cities within its service area and other potentially affected agencies were invited to participate in the development of the 2010 Plan by providing comments.

Upper District provided a 14-day notice of a public hearing of its 2010 Draft Plan. Upper District made the 2010 Draft Plan available for public review at the District office on May 4, 2011 and held a public hearing on June 7, 2011. Attached in Appendix B.2 are the notices of public hearing and indicating the Draft Plan is available for public inspection for all groups and local government through notice in the newspaper and through Upper District's website. The following agencies attended the public hearing: Golden State Water Company, San Gabriel Valley Water Company and Valley County Water District. Upper District received comments by email from the Los Angeles County Sanitation District, which are attached in Appendix B.3. Following the public hearing. Upper District adopted the Draft Plan, including the modifications resulting from the public hearing, as its Urban Water Management Plan. Attached in Appendix B.4 is the adopted UWMP. Within 30 days of the adoption of the Plan, Upper District filed a copy of the Plan with the State of California, Department of Water Resources; the California State Library; and with the cities and counties located within Upper District's service area. Within 60 days of submitting the Plan to DWR, Upper District provided the Water Service Reliability section of the Plan to cities and counties within Upper District's boundaries. Copies of the letters to DWR, the State Library and the cities and counties are located in Appendix B.5. A copy of the final 2010 Plan is available for public review in the Upper District office.

1.3 WATER MANAGEMENT TOOLS

Section 10620

(f) An urban water supplier shall describe in the plan water management tools and options used by that entity that will maximize resources and minimize the need to import water from other regions.

This Plan describes the management tools and options used to maximize local resources and minimize the need to import water. In particular, Chapter 3 discusses the management of the groundwater basin, Chapter 5 discusses the Demand Management Measures (DMMs) implemented by Upper District, Chapter 6 describes future water supply projects within Upper District's service area and Chapter 8 discusses recycled water use and the potential plans to serve additional sub-agencies within Upper District's service area. As a wholesale water agency, Upper District delivers imported treated water to its sub-agencies for direct use and untreated imported water from groundwater replenishment and is committed to assisting its sub-agencies to maximize their local resources. For example, Upper District encourages its sub-agencies to implement DMMs as a method to conserve water and maximize local water resources.

1.4 CHANGES TO THE PLAN

Section 10621

- (a) Each urban water supplier shall update its plan at least once every five years on or before December 31, in years ending in five and zero.
- (b) Every urban water supplier required to prepare a plan pursuant to this part shall, at least 60 days prior to the public hearing on the plan required by Section 10642, notify any city or county within which the supplier provides water supplies that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan. The urban water supplier may consult with, and obtain comments from, any city or county that receives notice pursuant to this subdivision.
- (c) The amendments to, or changes in, the plan shall be adopted and filed in the manner set forth in Article 3 (commencing with Section 10640).

Upper District prepared its first Management Plan in 1985 and since has updated its plan every five years. This Plan is for 2010 and is an update from the 2005 Plan. There have been new amendments added to the Act and some reorganization of the water code sections since Upper District's last update in 2005. The additions and changes are as follows:

- 1) Senate Bill 1087, Requires reporting of water use projections for lower income households
- 2) Assembly Bill 1376, Requires 60 days notice of preparation of an UWMP
- 3) Assembly Bill 1420, Conditions state funding
- 4) Senate Bill 7, Requires 20 percent reduction in use by 2020 (attached in Appendix A.2)

In accordance with Water Code Section 10621, Upper District has reviewed its Management Plan, and appropriate changes were included.

Chapter 2

DESCRIPTION OF SERVICE AREA

Section 10631

a) Describe the service area of the supplier; including current and projected population, climate, and other demographic factors affecting the supplier's water management planning. The projected population estimates shall be based upon data from the state, regional, or local service agency population projections within the service area of the urban water supplier and shall be in five-year increments to 20 years or as far as data is available.

2.1 BACKGROUND

Upper District is a wholesale water agency and was incorporated on January 7, 1960 under the Municipal Water District Act. The Municipal Water District Act provides for , "The people of any county or counties, or of any portions thereof, whether such portions include unincorporated territory only or incorporated territory of any city or cities, or both such incorporated and unincorporated territories..." to organize municipal water districts. With respect to water supply, the Municipal Water District Act allows such a district to "...acquire, control, distribute, store, spread, sink, treat, purify, reclaim, recapture, and salvage any water, including sewage and storm waters, for the beneficial use or users of the District, its inhabitants, or the owners of rights to water in the District." Upper District is governed by a five member Board of Directors and is broken down into five divisions, which are shown on Plate 1 included in the back of this Plan. Upper District employs a general manager and office staff and retains an attorney and consulting engineer. As a wholesaler, Upper District supplies supplemental imported water, from the Metropolitan Water District of Southern California (Metropolitan), and recycled water to its sub-agencies.

Metropolitan is comprised of 26 member agencies that receive imported water from the State Water Project and the Colorado River. Upper District is a member agency of Metropolitan.

While Upper District is a water wholesaler with no retail customers of its own, Upper District's sub-agencies provide water to retail customers. Upper District's sub-agencies include a number of urban water suppliers that are required to prepare Management Plans. As a wholesaler, Upper District provides imported water service to sub-agencies through Metropolitan's distribution system and recycled water service through a local distribution system. The majority of the imported water delivered from Upper District to its sub-agencies is used for groundwater recharge and delivered through service connection USG-3.

Upper District supplies <u>treated</u> imported water from Metropolitan through the following service connections:

- USG-1: Golden State Water Company
- USG-2: City of South Pasadena
- USG-4: Suburban Water Systems
- USG-5: City of Alhambra
- USG-6: City of Arcadia
- USG-7: City of Monrovia
- USG-8: City of Azusa
- USG-9: Valley County Water District

Metropolitan has prepared a document entitled "The Metropolitan Water District of Southern California Regional Urban Water Management Plan" (RUWMP), dated November 2010. Metropolitan's 2010 RUWMP draft is available for use and reference by its member agencies and urban water suppliers within those member agencies.

Upper District's Plan incorporates by reference the 2010 RUWMP draft prepared by Metropolitan and supplements the Plans prepared by the urban water suppliers within Upper District.

2.2 UPPER DISTRICT'S LOCAL WATER SUPPLIERS

Based upon their 2008-09 water production and imported water deliveries, the following urban water suppliers within or partially within Upper District's boundaries may be required to prepare a Plan.

- · Arcadia, City of
- Azusa Valley Water Company
- California-American Water Company
 - Duarte Division
 - San Marino Division
- California Domestic Water Company
- Covina, City Of
- Covina Irrigating Company
- East Pasadena Water Company
- El Monte, City of
- Glendora, City of
- Golden State Water Company
 - San Gabriel Valley Division
 - San Dimas Division
- Monrovia, City of
- San Gabriel County Water District
- San Gabriel Valley Water Company
- South Pasadena, City of
- Suburban Water Systems
- Sunny Slope Water Company
- Valley County Water District
- Whittier, City of

2.3 DESCRIPTION OF AREA

Upper District is located within San Gabriel Valley in Los Angeles County and overlies the Main Basin. The boundaries of Upper District are shown on Plate 2. Upper District's service area is about 144 square miles and includes all or portions of the Cities of Arcadia, Azusa, Baldwin Park, Bradbury, Covina, Duarte, El Monte, Glendora, Industry, Irwindale, La Puente, Monrovia, Rosemead, San Gabriel, South El Monte, South Pasadena, Temple City, and West Covina. The service area of Upper District is largely urbanized consisting of mainly residential, light industrial and commercial uses.

2.4 CURRENT AND PROJECTED POPULATION

Upper District occupies an area of about 144 square miles and has a 2010 estimated population of about 903,000. The following tabulation presents the estimated historic and projected population of the area encompassed by the Upper San Gabriel Valley Municipal Water District from 1950 to 2030. The sources of the following data are the Census Bureau and Southern California Association of Governments (SCAG).

		Percent	
Year	<u>Population</u>	<u>Increase</u>	Source
1950	261,000	555.00	Census
1960	440,000	69	Census
1970	651,000	48	Census
1980	670,000	3	Census
1990	787,000	17	Census
1995	806,000	2	Census
2000	866,000	7	SCAG
2005	898,000	3.5	SCAG
2010	903,000	0.6	SCAG
2015	935,000 (projected)	3.5	SCAG

	Percent	
Population_	<u>Increase</u>	Source
966,000 (projected)	3.3	SCAG
996,000 (projected)	3.1	SCAG
1,025,000 (projected)	2.9	SCAG
	966,000 (projected) 996,000 (projected)	Population Increase 966,000 (projected) 3.3 996,000 (projected) 3.1

2.5 CLIMATE

Historical rainfall in the San Gabriel Valley is shown in Table 1A. Table 1B shows the monthly average rainfall, monthly average temperature and monthly evapotranspiration in the San Gabriel Valley. Average rainfall in the San Gabriel Valley is about 17.8 inches, as shown in Table 1B. The annual rainfall in the San Gabriel Valley in 2008-09 was 14.0 inches, as shown in Table 1A, which was 79 percent of the normal conditions for the area. The service area and location of Upper District in the San Gabriel Valley has a dry climate and summers can reach average daily temperatures in the high 70s. Typically outdoor water uses, including irrigation, account for about 50 percent of residential use. Although changes in climatic conditions will have an impact, the projected water supply demands will be based on average year, single dry year and multiple-dry years.

2.6 OTHER DEMOGRAPHIC FACTORS

There are no other demographic factors affecting Upper District's water management planning. However, increased population will have a proportional impact on water demand.

Chapter 3

SOURCES OF SUPPLY

3.1 EXISTING AND PLANNED SOURCES OF WATER SUPPLY

Section 10631(b) Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a).

Upper District depends upon Metropolitan for its current and future imported water supplies. Metropolitan supplies imported water to Upper District, which in turn supplies that imported water to its sub-agencies. <u>Treated</u> imported water is delivered by Upper District to its sub-agencies for direct use from Upper District service connections on the Metropolitan distribution system. <u>Untreated</u> imported water is delivered to the Main Basin to satisfy its Replacement Water obligations required under the Main Basin Judgment (see Section 3.2.1.2). The reliability of future supplies of imported water historical has been impacted by the sources of supply available to Metropolitan. Metropolitan discusses the reliability of its existing and planned sources of water supply in its 2010 RUWMP, which is incorporated by reference.

In addition, Upper District works with local water agencies to use recycled water for direct uses, which is obtained from the Sanitation Districts of Los Angeles County (CSD). Direct use of recycled water reduces groundwater production, and consequently, the need for an equivalent amount of imported water in many cases. Furthermore, Upper District is looking into the possibility of a recycled water project groundwater replenishment in the Main Basin.

3.1.1 METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

3,1.1.1 COLORADO RIVER

Metropolitan owns and operates the Colorado River Aqueduct which conveys water from Lake Havasu on the Colorado River to water transmission pipelines and to Diamond Valley

Lake and Lake Matthews for storage. Metropolitan's Colorado River water right historical included a fourth and fifth priority under the 1931 Seven Party Agreement relating to California's share in the Colorado River water supply. Metropolitan is currently allotted an amount of 550,000 acre-feet, but may receive additional supplies depending water supply conditions for any given year.

3.1.1.2 STATE WATER PROJECT

Metropolitan contracts with the State of California, through the State Water Project, for the delivery of northern California water through the California Aqueduct. The State Water Project is a statewide water conveyance system that captures, stores and conveys water to 29 water agencies. The State Water Project's original total contractual commitment called for a capacity of 4.2 million acre-feet per year. Metropolitan has a maximum annual entitlement of 2,011,500 acre-feet.

The State Water Project may not be able to fulfill all of its contractual water delivery requirements in the future. In order for the State Water Project to deliver all of the water contracted, additional water supplies must be developed. Water diverted at the Sacramento-San Joaquin Delta by the State Water Project must be water that is surplus to the needs of the areas of origin. As local use of water in northern California increases, the supply to the State Water Project may be reduced. According to the State Water Project Delivery Reliability Report, water quality requirements in the Sacramento-San Joaquin Delta affect the quantity of water available to the State Water Project. Legal decisions regarding Delta smelt and other sensitive aquatic species, since the 2005 UWMP have reduced the estimated median annual average supply on the SWP from about 3,170,000 acre-feet in 2005 to about 2,680,000 acre-feet in 2009. In an effort to protect the Delta smelt and other aquatic species, the "2-gates Fish Demonstration Project" has been developed. The "2-gates Project" proposes the installation of removable gates, which will be "... opened and closed in conjunction and coordination with operation criteria established by the state..." (State Water Project Delivery Reliability Report, 2009). The results of the

"2-gates Project" will provide data that may result in greater flexibility in delivery of SWP water.

Metropolitan discusses the historical sources of water supply in its 2010 RUWMP, which is incorporated by reference. Appendix I.1 summarizes the historical sources of water supply available to Metropolitan.

3.1.1.3 WATER SUPPLY ALLOCATION PLAN (WSAP)

During calendar year 2007, critically dry conditions impacted Metropolitan's main water supply sources. In addition, a ruling in the Federal Courts in August 2007 provided protective measures for the Delta Smelt (and subsequently other aquatic species) in the Sacramento-San Joaquin River Delta resulting in restrictions on the availability of State Water Project water. As a result, Metropolitan adopted a Water Supply Allocation Plan (WSAP), in February 2008 to allocate available water supplies to its member agencies. The WSAP establishes ten different shortage levels and a corresponding Allocation to each member agency. Based on the shortage level established by Metropolitan, the WSAP provides a reduced Allocation to a member agency for its Municipal and Industrial (M&I) retail demand and provides a reduced Allocation for the Interim Agricultural Water Program (IAWP). The WSAP considers historical local water production, full service treated water deliveries, agricultural deliveries and water conservation efforts when calculating each member agency's Allocation.

In general, the WSAP process calculates total historical member agency demand. That historical demand is then compared to member agency projected local supply for a specific Allocation year. The balance required from Metropolitan, less an Allocation reduction factor, is the member agency's "Water Supply Allocation". When a Member Agency reduces its local demand through conservation or other means, the Allocation will increase. Because the demand has been eliminated, the Allocation can be used to purchase Full Service untreated water for replenishment deliveries.

Metropolitan determined the Regional Shortage Level for fiscal year 2009-10 was Level 2 and the corresponding <u>regional</u> shortage is 10 percent.

Metropolitan Supplies Under Shortage Allocation

During fiscal year 2009-10, about 6,600 acre-feet was delivered for treated water purchases and about 16,100 acre-feet was delivered for groundwater replenishment, (which is described in Section 3.2.5) for a total of about 22,700 acre-feet. Following the conclusion of fiscal year 2009-10 the Shortage Allocation for Upper District was calculated to be about 31,400 acre-feet, based on local production of 156,200 acre-feet.

3.1.2 RECYCLED WATER

As noted later in Chapter 8, CSD operates both the Whittier Narrows Water Reclamation Plant (WNWRP) and the San Jose Creek Water Reclamation Plant (SJCWRP). The WNWRP, which began operation in 1962, was the first reclamation plant built by the CSD. It has a treatment capacity of about 15 million gallons per day (MGD) and provides coagulated, filtered and disinfected tertiary effluent. The WNWRP serves a population of approximately 150,000 people. During the fiscal year 2008-09, the total water production from this plant was about 7,863.4 acre-feet, as shown in Table 2.

The SJCWRP, which began operation in 1973, currently has a treatment capacity of about 100 MGD and provides coagulated, filtered and disinfected tertiary effluent. The SJCWRP has room for an expansion of an additional 25 MGD. The SJCWRP plant serves a population of approximately 1 million people, largely a residential population. During fiscal year 2008-09, the total water production from this plant was about 77,920.6 acre-feet, as shown in Table 2.

These two facilities provide a source of recycled water for Upper District's existing and proposed recycled water projects. In addition, Upper District's direct reuse recycled water project includes four phases, which can potentially supply about 20,000 acre-feet per

year of recycled water to customers. Recycled water will replace imported water that is currently used for non-potable purposes (irrigation). More details on Upper District's direct reuse water project are discussed in Chapter 8. In addition, Upper District is investigating the possibility of a recycled water project for groundwater replenishment.

3.2 GROUNDWATER BASIN

Section 10631(b)

If groundwater is identified as an existing or planned source of water available to the supplier, all of the following information shall be included in the plan:

- 1) A copy of any groundwater management plan adopted by the urban water supplier, including plans adopted pursuant to Part 2.75 (commencing with Section 10750), or any other specific authorization for groundwater management.
- 2) A description of any groundwater basin or basins from which the urban water supplier pumps groundwater. For those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court of the board and a description of the amount of groundwater the urban water supplier has the legal right to pump under the order or decree. For basins that have not been adjudicated, information as to whether the department has identified the basin or basins as overdrafted or has projected that the basin will become overdrafted if present management conditions continue, in the most current official departmental bulletin that characterizes the condition of the groundwater basin, and a detailed description of the efforts being undertaken by the urban water supplier to eliminate the long-term overdraft condition.
- 3) A detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water supplier for the past five years. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.
- 4) A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the urban water supplier. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

Upper District's legal boundaries are within the San Gabriel Valley, as noted in Chapter 2, and overlie the Main Basin. Upper District has never produced groundwater from the Main Basin and currently does not have facilities to do so. However, Upper District's sub-agencies produce water from the Main Basin. The following provides a description of the sources of supply available to retail groundwater producers within Upper District and the multi-layer management structure that is in place to ensure long-term adequacy of the local water supply. The Main Basin has been adjudicated and management of the local water resources within the Main Basin is based on its adjudication. The Department of Water Resources' (DWR) Bulletin 118 does not identify the Main Basin as being in overdraft.

3.2.1 GROUNDWATER MANAGEMENT PLAN

Upper District has not adopted a specific groundwater management plan. Management of the water resources in the San Gabriel Valley is based upon Watermaster services under two Court Judgments: San Gabriel River Watermaster (River Watermaster)¹ and Main San Gabriel Basin Watermaster (Basin Watermaster)². Upper District is an intervener in the Long Beach Judgment and as such has significant participation.

In addition, Upper District was the plaintiff in the court action that resulted in the creation of the Main Basin Watermaster. Two members of the Upper District Board are appointed to serve on the Watermaster. Upper District is also included in Main Basin management described in the Basin Watermaster document entitled "Five-Year Water Quality and Supply Plan." The following sections provide a description of the two Judgments and the Five Year Water Quality and Supply Plan that make up the groundwater management plan for the Main Basin. In addition, this section describes Upper District's and Water Quality Authority's (WQA) policies to promote groundwater basin clean-up.

3.2.1.1 LONG BEACH JUDGMENT

On May 12, 1959, the Board of Water Commissioners of the City of Long Beach, the Central Municipal Water District (Central District), and the City of Compton, as plaintiffs, filed an action against the San Gabriel Valley Water Company and 24 other producers of groundwater from the San Gabriel Valley as defendants. This action sought a determination of the rights of the defendants in and to the waters of the San Gabriel River system and to restrain the defendants from an alleged interference with the rights of

No. 924128, Judgment entered January 4, 1973.

¹ Board of Water Commissioners of the City of Long Beach, et al., v. San Gabriel Valley Water Company, et al., Los Angeles County Case No. 722647, Judgment entered September 24, 1965.

2 Upper San Gabriel Valley Municipal Water District v. City of Alhambra, et al., Los Angeles County Case

plaintiffs and persons represented by the Central District in such waters. After six years of study and negotiation a Stipulation for Judgment was filed on February 10, 1965, and the Judgment (Long Beach Judgment) was entered on September 24, 1965. Under the terms of the Long Beach Judgment, the water supply of the San Gabriel River system was divided at Whittier Narrows, between San Gabriel Valley upstream and the coastal plain of Los Angeles County downstream. A copy of the Long Beach Judgment can be found in Appendix C.

Under the terms of the Long Beach Judgment, the area downstream from Whittier Narrows (Lower Area), the plaintiffs and those they represent, are to receive a quantity of usable water annually from the San Gabriel River system comprised of usable surface flow, subsurface flow at Whittier Narrows and water exported to the Lower Area. This annual entitlement is guaranteed by the area upstream of Whittier Narrows (Upper Area), the defendants, and provision is made for the supply of Make-up Water by the Upper Area for years in which the guaranteed entitlement is not received by the Lower Area.

Make-up Water is imported water purchased by the Basin Watermaster and delivered to agencies in Central District to satisfy obligations under the Long Beach Judgment. The entitlement of the Lower Area varies annually, dependent upon the 10-year average annual rainfall in San Gabriel Valley for the 10 years ending with the year for which entitlement is calculated.

The detailed operations described in the Long Beach Judgment are complex and requires continuous compilation of data so that annual determinations can be made to assure compliance with the Long Beach Judgment. In order to do this, a three-member Watermaster was appointed by the Court, one representing the Upper Area parties nominated by and through Upper District, one representing the Lower Area parties nominated by and through the Central District, and one jointly nominated by Upper District and Central District. This three-member board is known as the San Gabriel River Watermaster (River Watermaster).

The River Watermaster meets periodically during the year to adopt a budget, to review activities affecting water supply in the San Gabriel River system area, to compile and review data, to make determinations of usable water received by the Lower Area, and to prepare its annual report to the Court. The River Watermaster has rendered annual reports for the water years 1963-64 through 2008-09 and operations of the river system under that Court Judgment and through the administration by the River Watermaster have been satisfactory since its inception.

One major result of the Long Beach Judgment was to leave the Main Basin free to manage its water resources so long as it meets its downstream obligation to the Lower Area under the terms of the Long Beach Judgment. Upper District intervened in the Long Beach case as a defendant to enforce the provisions of a Reimbursement Contract, which was incorporated into the Long Beach Judgment to assure that any Make-up Water obligations under the terms of the Long Beach Judgment would be satisfied.

3.2.1.2 MAIN BASIN JUDGMENT

The Upper Area then turned to the task of developing a water resources management plan to optimize the conservation of the natural water supplies of the area. Studies were made of various methods of management of the Main Basin as an adjudicated area and a report thereon was prepared for the Upper San Gabriel Valley Water Association, an association of water producers in the Main Basin. After due consideration by the Association, Upper District was requested to file as plaintiff, and did file, an action on January 2, 1968, seeking an adjudication of the water rights of the Main Basin and its Relevant Watershed. After several years of study (including verification of annual water production) and negotiations, a stipulation for entry of Judgment was approved by a majority of the parties, by both the number of parties and the quantity of rights to be adjudicated. Trial was held in late 1972 and the Judgment (Main Basin Judgment) was entered on January 4, 1973. A copy of the Main Basin Adjudication can be found in Appendix D.

Under the terms of the Main Basin Judgment all rights to the diversion of surface water and production of groundwater within the Main Basin and its Relevant Watershed were adjudicated. The Main Basin Judgment provides for the administration of the provisions of the Main Basin Judgment by a nine-member Basin Watermaster. Six of those members are nominated by water producers (producer members) and three members (public members) are nominated by the Upper San Gabriel Valley Municipal Water District and the San Gabriel Valley Municipal Water District, which overlie most of the Basin. The nine-member board employs a staff, an attorney and a consulting engineer. The Basin Watermaster holds public meetings on a regular monthly basis throughout the year. A copy of the Main San Gabriel Basin Watermaster's Rules and Regulations is located in Appendix E.

The Main Basin Judgment does not restrict the quantity of water, which parties may extract from the Main Basin. Rather, it provides a means for replacing all annual extractions in excess of a Party's annual right to extract water with Supplemental Water. The Basin Watermaster annually establishes an Operating Safe Yield for the Main Basin which is then used to allocate to each Party its portion of the Operating Safe Yield which can be produced free of a Replacement Water Assessment. If a producer extracts water in excess of its right under the annual Operating Safe Yield, it must pay an assessment for Replacement Water, which is sufficient to the purchase of one acre-foot of Supplemental Water to be spread in the Main Basin for each acre-foot of excess production. All water production is metered and is reported quarterly to the Basin Watermaster.

In addition to Replacement Water Assessments, the Basin Watermaster levies an Administration Assessment to fund the administration of the Basin management program under the Court Judgment and a Make-up Obligation Assessment in order to fulfill the requirements for any make-up Obligation under the Long Beach Judgment and to supply fifty percent of the administration costs of the River Watermaster service. The Basin Watermaster levies an In-lieu Assessment and may levy special Administration Assessments.

Water rights under the Main Basin Judgment are transferable by lease or purchase so long as such transfers meet the requirements of the Judgment. There is also provision for Cyclic Storage Agreements by which Parties and non-parties may store imported supplemental water in the Main Basin under such agreements with the Basin Watermaster pursuant to uniform rules and conditions and Court approval.

The Main Basin Judgment provides that the Basin Watermaster will not allow imported water to be spread in the main part of the Main Basin when the groundwater elevation at the Baldwin Park Key Well³ (Key Well) exceeds 250 feet; and that the Basin Watermaster will, insofar as practicable, spread imported water in the Main Basin to maintain the groundwater elevation at the Key Well above 200 feet. One of the principal reasons for the limitation on spreading imported water when the Key Well elevation exceeds 250 feet is to reserve ample storage space in the Main Basin to capture native surface water runoff when it occurs and to optimize the conservation of such local water. Under the terms of the Long Beach Judgment, any excess surface flows that pass through the Main Basin at Whittier Narrows to the Lower Area (which is then conserved in the Lower Area through percolation to groundwater storage) is credited to the Upper Area as Usable Surface Flow.

3.2.1.3 OPERATIONS OF THE GROUNDWATER BASIN

Through the Long Beach Judgment and the Main Basin Judgment, operations of the Main Basin are optimized to conserve local water to meet the needs of the parties of the Main Basin Judgment.

Upper District is one of the Responsible Agencies from which Basin Watermaster purchases Supplemental Water. The Supplemental Water purchased from Upper District is for groundwater replenishment purposes (Replacement Water for excess production by a Producer) or Make-up Water for delivery to the Lower Area under the terms of the Long

³The Baldwin Key Well is a water-level monitoring well located in the City of Baldwin Park used to determine when imported water may or may not be spread in the Basin.

Beach Judgment. Upper District sells imported water, delivered by Metropolitan, to its subagencies and to the Basin Watermaster. Such water is delivered from Metropolitan's transmission facilities. Imported water can currently be delivered for use by Upper District and its sub-agencies through nine service connections. Treated imported water is delivered through USG-1, USG-2, USG-4, USG-5, USG-6, USG-7, USG-8, and USG-9, while untreated water is delivered through USG-3.

Imported water is sold by Upper District for three purposes: direct use (treated), groundwater replenishment (untreated) and Make-Up Water (untreated)under the terms of the Long Beach Judgment.

Typically, water producers within Upper District rely upon groundwater from Main Basin for their water supply. The City of Alhambra has agreed to receive treated, imported water as part of the Cooperative Water Exchange Agreement (CWEA) to reduce the groundwater extractions from the western portion of the Main Basin and the associated drawdown concerns.

Imported water for groundwater replenishment is delivered through the flood control channels and diverted and spread at spreading grounds through Basin Watermaster's agreement with the Los Angeles County Department of Public Works (DPW). Groundwater replenishment utilizes imported water and is considered Replacement Water under the terms of the Main Basin Judgment. It can be stored in the Main Basin through Cyclic Storage agreements, authorized by terms of the Main Basin Judgment, but such stored water may be used only to supply Supplemental Water to the Basin Watermaster.

The Basin Watermaster has entered into a Cyclic Storage Agreement with each of the three municipal water districts. One is with Metropolitan and Upper District, which permits Metropolitan to deliver and store imported water in the Main Basin in an amount not to exceed 100,000 acre-feet for future Replacement Water use. The second Cyclic Storage Agreement is with Three Valleys Municipal Water District and permits Metropolitan

to deliver and store 40,000 acre-feet for future Replacement Water use. The third is with San Gabriel Valley Municipal Water District (San Gabriel District) and contains generally the same conditions as the agreement with Metropolitan except that the stored quantity is not to exceed 40,000 acre-feet.

Imported Make-up Water has been delivered to lined stream channels and conveyed to the Lower Area. Make-up Water is required to be delivered to the Lower Area by the Upper Area when the Lower Area entitlement under the Long Beach Judgment exceeds the usable water received by the Lower Area. Imported water is used to fulfill the Make-up Water Obligation when the amount of Make-up Water cannot be fulfilled by reimbursing the Lower Area interests for their purchase of recycled water. The amount of recycled water for which reimbursement may be made as a delivery of Make-up Water is limited by the terms of the Long Beach Judgment to the annual deficiency in Lower Area Entitlement water or to 14,735 acre-feet, whichever is the lesser quantity.

3.2.1.4 FIVE-YEAR WATER QUALITY AND SUPPLY PLAN

The Main Basin Watermaster was created in 1973 to resolve water issues that had arisen among water users in the San Gabriel Valley. Basin Watermaster's mission was to generally manage the water supply of the Main San Gabriel Groundwater Basin. During the late1970s and early 1980s, significant groundwater contamination was discovered in the Main Basin. The contamination was caused in part by past practices of local industries that had carelessly disposed of industrial solvents referred to as Volatile Organic Compounds (VOC's) as well as by agricultural operations that infiltrated nitrates into the groundwater. Cleanup efforts were undertaken at the local, state, and federal level.

Local water agencies adopted a joint resolution in 1989 regarding water quality issues that stated Basin Watermaster should coordinate local activities aimed at preserving and restoring the quality of groundwater in the Main Basin. The joint resolution also called for a cleanup plan. In 1991, the Court granted Basin Watermaster the authority to control

pumping for water quality purposes. Accordingly, Basin Watermaster added Section 28 to its Rules and Regulations regarding water quality management. The new responsibilities included development of a Five-Year Water Quality and Supply Plan, updating it annually, submitting it to the California Regional Water Quality Control Board, Los Angeles Region, and making it available for public review by November 1 of each year. A copy of the most recent Five-Year Water Quality and Supply Plan (excluding its appendices) is located in Appendix F.

Basin Watermaster prepares and annually updates the Five-Year Water Quality and Supply Plan in accordance with the requirements of Section 28 of it Rules and Regulations. The objective is to coordinate groundwater-related activities so that both water supply and water quality in the Main Basin are protected and improved. Many important issues are detailed in the Five-Year Plan, including how Basin Watermaster plans to:

- Monitor groundwater supply and quality;
- 2. Develop projections of future groundwater supply and quality;
- Review and cooperate on cleanup projects, and provide technical assistance to other agencies;
- 4. Assure that pumping does not lead to further degradation of water quality in the Basin;
- 5. Address Perchlorate, N-nitrosodimethylamine (NDMA), and other emerging contaminants in the Basin;
- Develop a cleanup and water supply program consistent with the U.S. Environmental Protection Agency (USEPA) plans for its San Gabriel Basin Superfund sites; and
- 7. Coordinate and manage the design, permitting, construction, and performance evaluation of the Baldwin Park Operable Unit (BPOU) cleanup and water supply plan.

The Basin Watermaster, in coordination with Upper District, has worked with state and federal regulators, along with local water companies to clean up water supplies. Section 28 of the Basin Watermaster's Rules and Regulations require all producers (including Upper District sub-agencies) to submit an application to 1) construct a new well, 2) modify an existing well, 3) destroy a well, or 4) construct a treatment facility. The Basin Watermaster prepares a report on the implications of the proposed activity. Upper District reviews a copy of these reports and is provided the opportunity to submit comments on the proposed activity before the Basin Watermaster Board takes final action. Upper District is involved in discussions between the Basin Watermaster, the USEPA, and potentially responsible parties that are contributing to the cost of groundwater cleanup.

3.2.1.5 UPPER DISTRICT POLICY NO. 9-00-8

Upper District adopted Policy No. 9-00-8 which established criteria and conditions under which the Upper District Board of Directors will consider providing funding, exclusively or in cooperation with WQA, Watermaster and other interested parties, for the construction of water treatment facilities and/or groundwater remediation projects in the Main Basin. This policy also establishes the general manner and methodology by which such funding can be distributed by Upper District for approved projects and programs. A copy of this policy is in Appendix G.

3.2.1.5.1 POLICY OBJECTIVES

Within its statutory authority, budgetary limitations and policy objectives, Upper District will provide financial assistance for the procurement and/or construction of water treatment facilities at sites in the San Gabriel Valley. The principle objectives are:

- 1. Optimize utilization of local water resources.
- 2. Reduce or eliminate local reliance on treated, non-interruptible imported water supplies.
- 3. Maximize local water supply reliability
- 4. Provide for wholesale water supply price efficiency.
- 5. Protect public health and safety.

3.2.1.5.2 POLICY GUIDELINES

Projects to be considered for approval by the Board must meet the guidelines of this program and satisfy certain criteria to qualify for funding under this program. That criterion is listed as follows:

- 1. The project must be located within the boundaries of Upper District.
- 2. The project must be considered in a manner so as to reactivate, or maintain operation of, an existing local water source that otherwise could not continue operation because of excessive contamination.
- 3. The project must be designed such that its operation presents a significant water supply benefit to the public served.
- 4. The project must be designed such that its operation provides a significant groundwater remediation benefit if applicable.
- 5. The project must employ proven or CDHS certified treatment technology to allow for a high probability of success.
- 6. The project must be structured such that either Upper District has a reasonable probability of substantial cost recovery from parties responsible for groundwater contamination, or it addresses an urgent and immediate public health and safety crisis that cannot be resolved in a more efficient and effective manner.
- 7. The project must be reviewed by Upper District's Engineer.

Funding can be provided in several forms depending upon the circumstances surrounding the project. When structuring the distribution of funds, factors such as the likelihood of cost recovery, the future availability of other sources of funding and the preliminary goals of the project will be considered. To maximize the potential for cost recovery and securing funding from other sources, Upper District project funds will be distributed through the WQA's project accounts where possible.

3.2.1.6 WATER QUALITY AUTHORITY 406 PLAN

Section 406 of the WQA Act requires the WQA "to develop and adopt a basinwide groundwater quality management and remediation plan" that is required to be consistent with the EPA's National Contingency Plan ("NCP") and Records of Decision ("ROD") and all requirement of the Los Angeles Regional Water Quality Control Board ("LARWQCB"). According to the WQA Act, the Section 406 Plan must include:

- 1) Characterization of Basin contamination;
- 2) A comprehensive cleanup plan;
- 3) Strategies for financing the design, construction, operation and maintenance of groundwater cleanup facilities;
- 4) Provision for a public information program; and
- 5) Coordination of activities with federal, state, and local entities.

WQA reviews and adopts the Section 406 Plan on an annual basis and as necessary, makes revisions according to changing regulatory, political and/or funding environments. A copy of the WQA 406 Plan is located in Appendix H.

In support of the Section 406 Plan, WQA also adopts an annual fiscal year budget (July 1 through June 30) which includes all projects (actual or planned) WQA is facilitating through its participation during that time period. The budget identifies the various funding sources, and combinations thereof, to ensure full funding for each project (capital and/or O&M) can be achieved.

3.2.2 DESCRIPTION OF GROUNDWATER BASIN

The San Gabriel Valley is located in southeastern Los Angeles County and is bounded on the north by the San Gabriel Mountains; on the west by the San Rafael and Merced Hills, on the south by the Puente Hills and the San Jose Hills, and on the east by a low divide between the San Gabriel River system and the Upper Santa Ana River system, as shown on Plate 3.

The San Gabriel River and its distributary, the Rio Hondo, drain an area of about 490 square miles upstream of Whittier Narrows. Whittier Narrows is a low gap between Merced and Puente Hills, just northwest of the City of Whittier, through which the San Gabriel River and the Rio Hondo flow to the coastal plan of Los Angeles County. Whittier Narrows is a natural topographic divide and a subsurface restriction to the movement of groundwater between the Main San Gabriel Basin and the Coastal Plain. The approximately 490 square miles of drainage area upstream of Whittier Narrows consists of about 167 square miles of valley lands and about 323 square miles of mountains and foothills.

The Main Basin includes essentially the entire valley floor of San Gabriel Valley with the exception of the Raymond Basin and Puente Basin. The boundaries of the Main Basin are the Raymond Basin on the northwest, the base of the San Gabriel Mountains on the north, the groundwater divide between San Dimas and La Verne and the lower boundary of the Puente Basin on the east, and the common boundaries between Upper District and Central District through Whittier Narrows on the southwest. The common water supply of the Main Basin does not include the Raymond Basin, the area northerly of Raymond Hill Fault, which was adjudicated in the Pasadena v. Alhambra case (Superior Court of the County of Los Angeles, 1944). The Puente Basin, although tributary to the Main Basin, is not included in the Main Basin administered by the Basin Watermaster.

The Main Basin (administered by the Main Basin Watermaster) is a large groundwater basin replenished by stream runoff from the adjacent mountains and hills, by rainfall directly on the surface of the valley floor, subsurface inflow from Raymond Basin and Puente Basin, and by return flow from water applied for overlying uses. Additionally, the Main Basin is replenished with imported water. The Main Basin serves as a natural storage reservoir, transmission system and filtering medium for wells constructed therein.

There are three municipal water districts overlying and/or partially overlying the Main Basin. The three districts are Upper District, San Gabriel District, and Three Valleys

Municipal Water District (TVMWD). The boundaries of these water districts are shown on Plate 2.

Urbanization of the San Gabriel Valley began in the early part of the twentieth century, but until the 1940's, agricultural land use occupied more area than residential and commercial land use. After World War II agricultural areas reduced rapidly and are now less than two thousand acres. The agricultural areas tend to be located in the easterly portion of the Main Basin and along power transmission rights of way adjacent to the San Gabriel River. Agricultural plots are discontinuous and relatively small. There are several major industrial areas adjacent to the San Gabriel River and within other portions of the valley. The greatest area of land use in the valley is for residential and commercial purposes.

3.2.3 GEOLOGY

The Main Basin consists of a roughly bowl-shaped depression of bedrock, filled over millions of years with alluvial deposits. This bowl-shaped depression is relatively deep; the elevation at the base of the groundwater reservoir declines from about 800 feet above mean sea level (MSL) in the vicinity of San Dimas, at the northeast corner of the Main Basin, to about 2,200 feel below MSL in the vicinity of South El Monte. (California Department of Water Resources, 1966, Plate II.)

Most of the alluvium deposited within this depression is debris from the San Gabriel Mountains, washed and blown down from the side of the mountains over time. This process has also resulted in the materials of the Main Basin varying in size from relatively coarse gravel nearer the mountains to fine and medium-grained sand containing silt and clay as the distance from the mountains increases. The principal water-bearing formations of the Main Basin are unconsolidated and semi-consolidated sediments, which vary in size from coarse gravel to fine-grained sands. The interstices between these alluvial particles throughout the Main Basin fill with water and transmit water readily to wells. The thickness of the water-bearing materials in the Main Basin ranges from 200 to 300 feet in the

northeastern portion of the Main Basin near the mountains (Los Angeles County Department of Public Works, 1934, page 141.) to nearly 4,000 feet in the South El Monte area. (California Department of Water Resources, 1966, page 31.)

The soils overlying the Main Basin average about six feet in depth. Soil depths are generally greater at the perimeter of the valley and decrease toward the center along the San Gabriel River. These soils are residual, formed in place through chemical, mechanical and plant weathering processes. The infiltration rates of these soils are greater along the natural channels and their adjacent flood plains. Lower infiltration rates are found in the perimeter areas of the valley. Since the valley is mostly urbanized, a significant portion of the area has been paved and many miles of stream channel have been lined for flood control purposes, thus decreasing infiltration of water through streambeds. Detailed basin geology is discussed in the report entitled "Planned Utilization of Ground Water Basins, San Gabriel Valley, Appendix A: Geo-hydrology" (California Department of Water Resources, 1966).

3.2.4 HYDROLOGY

The total fresh water storage capacity of the Main Basin is estimated to be about 9.5 million acre-feet. Of that, about 1,100,000 acre-feet have been used historically in Main Basin operations. The change in groundwater elevation at the Key Well is representative of changes in groundwater in the Main Basin. One foot of elevation change at the Key Well is roughly the equivalent of about 8,000 acre-feet of water storage. The location of the Key Well is shown on Plate 3 and the hydrograph of the Key Well is shown on Figure 1. The historical high groundwater elevation was recorded at over 329.1 feet in April 1916, at which time Main Basin storage was estimated to be about 8,700,000 acre-feet. The historical low was recorded in December 2009 at 189.2 feet, at which time Main Basin storage was estimated to be about 7,600,000 acre-feet. The Key Well hydrograph shown on Figure 1 illustrates the cyclic nature of basin recharge and depletion. The hydrograph also illustrates the dramatic recharge capability of the Main Basin during wet periods.

Generally, water movement in the Main Basin is from the San Gabriel Mountains on the north to Whittier Narrows to the southwest, as shown on Plate 4. Groundwater movement in the northern and northeastern regions of the Main Basin is affected by faulting. For example, the Raymond Fault located in the northwesterly portion of the Main Basin separates the Raymond Basin from the Main Basin.

The Main Basin is an unconfined aquifer. Although clay deposits appear mixed with the soils in several locations in the Main Basin and there are various clay lenses throughout the Main Basin, they do not coalesce to form a single impermeable barrier for the movement of subsurface water. The Main Basin therefore operates as a single, unconfined aquifer. As previously mentioned, a thorough discussion of basin hydrogeology is contained in the report "Planned Utilization of Ground Water Basins, San Gabriel Valley, Appendix A: Geo-hydrology" (California Department of Water Resources, 1966).

Within the Main Basin there are a number of identified sub-basins. These include the Upper San Gabriel Canyon Basin, Lower San Gabriel Canyon Basin, Glendora Basin, Foothill Basin, Way Hill Basin and San Dimas Basin. In addition, the Puente Basin is tributary to the Main Basin from the southeast, between the San Jose and Puente Hills, but is not included in the Main Basin adjudication. Plate 3 shows the location of the sub-basins within the Main Basin.

3.2.5 GROUNDWATER REPLENISHMENT

The major sources of recharge to the Main Basin are direct penetration of rainfall on the valley floor, percolation of runoff from the mountains, percolation of imported water and return flow from applied water. Rainfall occurs predominantly in the winter months and is more intense at higher elevations and closer to the San Gabriel Mountains. Table 1A shows historical annual rainfall, which is highly variable from year to year, in the San Gabriel Valley. In water year 2006-07 the total rainfall (four station average) was less than five inches, while in 2004-05 the total rainfall (four station average) was about 45 inches, as shown on Table 1A.

The magnitude of annual recharge from direct penetration of local rainfall and return flow from applied water is not easily quantifiable. Percolation of runoff from the mountains and valley floor along with percolation of imported water has only been estimated. The DPW maintains records on the amount of local and imported water conserved in water spreading facilities and stream channels.

The San Gabriel River bisects the Main Basin. The San Gabriel River originates at the confluence of its west and east forks in the San Gabriel Mountains. It flows through the San Gabriel Canyon and enters the Main Basin at the mouth of the canyon north of the City of Azusa. The San Gabriel River flows southwesterly across the valley to Whittier Narrows, a distance of about 15 miles. It exits San Gabriel Valley at Whittier Narrows, and transverses the Coastal Plain in a southerly direction to reach the Pacific Ocean at Alamitos Bay near the City of Long Beach.

The San Gabriel River is joined and fed by tributary creeks and washes. In the Main Basin these include: Big Dalton Wash, which originates in the San Gabriel Mountains; Walnut Creek, which originates at the northeast end of the San Jose Hills; and San Jose Creek, which originates in the San Gabriel Mountains, but which travels around the southerly side of the San Jose Hills through the Puente Narrows before joining the San Gabriel River just above Whittier Narrows.

The channel of the San Gabriel River bifurcates in the upper middle portion of the Main Basin, forming a channel to the west of and parallel to the San Gabriel River, known as the Rio Hondo. Tributaries draining the westerly portion of the Main Basin, including Sawpit Wash, Santa Anita Wash, Eaton Canyon Wash, Rubio Wash and Alhambra Wash, all of which originate in the San Gabriel Mountains or the foothills, feed the Rio Hondo. The Santa Anita Wash, Eaton Canyon Wash, Rubio Wash and Alhambra Wash all cross the Raymond Basin area before entering the Main Basin. The channel of the Rio Hondo passes through Whittier Narrows westerly of the San Gabriel River, and then flows southwesterly to join the Los Angeles River on the Coastal Plain.

To protect residents of the San Gabriel Valley from flooding that can result during periods of intensive rainfall, the DPW and the U.S. Army Corps of Engineers (Corps of Engineers), have constructed an extensive system of dams, debris basins, reservoirs and flood control channels, which are shown on Plate 3. The dams and reservoirs also operate as water conservation facilities. The dams and reservoirs that control the flow of the San Gabriel River and the Rio Hondo include: Cogswell Reservoir on the west fork of the San Gabriel River, San Gabriel Reservoir at the confluence of the west and east forks of the San Gabriel River, Morris Reservoir near the mouth of the San Gabriel Canyon, Santa Fe Reservoir in the northerly portion of the Main Basin and Whittier Narrows Reservoir at the southwestern end of San Gabriel Valley.

Many of the stream channels tributary to the San Gabriel River have been improved with concrete banks (walls) and concrete-lined bottoms. These stream channel improvements have significantly reduced the area of previous stream channels and reduce Main Basin recharge. A number of off-stream groundwater replenishment facilities have been established along these stream channels to offset such reductions in recharge. The locations of these water spreading facilities are shown on Plate 3. Some of these facilities are accessible to imported water supplies, while some facilities receive only local runoff.

The paths of the surface streams are mirrored in the soils and in the direction of groundwater movement in the Main Basin. The tributary creeks and washes, carrying smaller amounts of water, generally flow toward the center of the San Gabriel Valley, while the direction of flow of the major streams, the San Gabriel River and the Rio Hondo, is from the mountains in the north to Whittier Narrows in the southwest. In similar fashion, the primary direction of groundwater movement in the Main Basin is from the north to the southwest, with contributing movement generally from the east and west toward the center of the Main Basin as shown on Plate 4. The greatest infiltration and transmissivity rates of soils in the Main Basin are from north to south, with the maximum rates found in the center of the valley along the stream channels. Generally, the Main Basin directs groundwater to the southwest through Whittier Narrows.

3.2.6 LOCATION, AMOUNT AND SUFFICIENCY OF GROUNDWATER

Upper District is a wholesale supplier of treated and untreated imported water, and recycled water for direct use. Upper District is investigating the possibility of a recycled water project for groundwater replenishment. Although Upper District does not produce groundwater, all of it sub-agencies do. As noted in Section 3.2 the Main Basin is managed by the Basin Watermaster. Section 42, Basin Operating Criteria, of the Main Basin Judgment states in part "... Watermaster shall not spread Replacement Water when the water level at the Key Well exceeds Elevation two hundred fifty (250), and Watermaster shall spread Replacement Water, insofar as practicable, to maintain the water level at the Key Well above Elevation two hundred (200)." Figure 1 shows the historical fluctuation of the Key Well elevation and illustrates since the Main Basin was adjudicated in 1973, it generally operated between an elevation 250 feet and 200 feet msl. Furthermore, at elevation 200 feet msl at the Key Well, the Main Basin has about 7,600,000 acre-feet of available storage. During the period of management under the Judgment, significant drought events have occurred from 1969 to 1977, 1983 to 1991, 1998 to 2004, and 2006 to present. In each drought cycle the Main Basin has been managed to maintain water levels.

Upper District recognizes Metropolitan has more restrictions on the availability of imported water and that Metropolitan has implemented the WSAP, which provides water supply allocations. Upper District is actively promoting water conservation activities (see Chapter 5). Those conservation activities, coupled with conservation from the requirements of SB7 should result in reduced demand and increased access to imported water for groundwater replenishment under Metropolitan's WSAP. This will enable Upper District to continue to deliver supplemental water to comply with the Main Basin Judgment.

Based on historical management practices, and the aforementioned activities by Upper District, all Upper District pumpers from the Main Basin have adequate supply from the Main Basin over the next 20 years under single year and multiple-year droughts.

3.3 RELIABILITY OF SUPPLY

Section 10631

- c) Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage, to the extent practicable, and provide data for each of the following:
 - 1) An average water year.
 - 2) A single dry water year.
 - 3) Multiple dry water years.

For any water source that may not be available at a consistent level of use, given specific legal, environmental, water quality, or climatic factors, describe plans to supplement or replace that source with alternative sources or water demand management measures, to the extent practicable.

Upper District recognizes the reliability of future supplies of imported supplemental water to Upper District from Metropolitan is directly dependent upon the sources of supply available to Metropolitan, and is subject to the Metropolitan WSAP allocation. Appendix I.2 shows Metropolitan's water supply for an average year, single dry year and multiple dry years. Metropolitan used 1922-2004 for the average year, 1977 for a single dry year and 1990-1992 for the multiple dry years. The 2010 RUWMP prepared by Metropolitan should be referred to for more details on projected sources of water supply available to Metropolitan and the reliability of those sources. Upper District intends to implement conservation activities to ensure long-term reliable replenishment capabilities. A summary of potential supplemental water supplies available to Upper District during an average water year, a single dry year and multiple dry years over the next 20 years in five-year increments are shown in Appendix I.2 of this Plan.

3.4 TRANSFERS AND EXCHANGES OF WATER

Section 10631

d) Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.

Upper District participates in a long-term Cooperative Water Exchange Agreement (CWEA) with the City of Alhambra, Metropolitan, San Gabriel District and the Main Basin Watermaster. Upper District is the representative member agency for Metropolitan in that exchange.

The CWEA was negotiated to solve a local problem near the City of Alhambra, referred to as the Alhambra Pumping Hole. The Alhambra Pumping Hole is located in an area of the Main Basin that gets little replenishment due to its location and hydrogeologic characteristics. Seven producers extract water from the Alhambra Pumping Hole and this resulted in declining water level elevations. Six of the producers are sub-agencies of Upper District. The seventh producer, the City of Alhambra, is a member agency of San Gabriel District. This exchange is cooperatively financed by the City of Alhambra, San Gabriel District and Upper District. It was agreed the City of Alhambra would receive direct delivery of water from Metropolitan and in exchange would reduce its extractions from the Alhambra Pumping Hole by an equivalent quantity. Currently, the Basin Watermaster levies an In-lieu Assessment to provide reimbursement to the City of Alhambra for increased incremental costs, which are incurred by the City. The City of Alhambra receives about 3,000 acre-feet per year of direct deliveries from Metropolitan.

Upper District, through Metropolitan, is active in the long-term cyclic storage of water in the Main Basin. Metropolitan is able to deliver water for groundwater replenishment purposes in advance of Upper District's specific requirement for such water. Water delivered to the Main Basin in advance of its requirement is credited to the Cyclic Storage Account and the credited deliveries are accrued from year to year. When the Basin Watermaster requires Replacement Water from Upper District, a transfer can then be made from the Cyclic Storage Account to Basin Watermaster in-lieu of actual delivery of imported water for that purpose, at the discretion of Metropolitan. Because water is often in Cyclic Storage for many years before being required as Replacement Water, the Cyclic Storage program, although technically a conjunctive use operation, may be considered an exchange or transfer program in that it takes advantage of surplus water, when available, and stores it in the Main Basin for future use.

Chapter 4

PAST, CURRENT AND PROJECTED WATER USE

4.1 PAST AND CURRENT WATER USE

Section 10631

- (e) (1) Quantify, to the extent records are available, past and current water use, over the same five-year increments described in subdivision (a), and projected water use, identifying the uses among water use sectors including, but not necessarily limited to, all of the following uses:
 - (A) Single-family residential.
 - (B) Multifamily.
 - (C) Commercial.
 - (D) Industrial.
 - (E) Institutional and governmental.
 - (F) Landscape.
 - (G) Sales to other agencies.
 - (H) Saline water intrusion barriers, groundwater recharge, or conjunctive use, or any combination thereof.
 - (I) Agricultural

Upper District is a wholesale water provider which provides retail water to urban water suppliers, but does not directly use water or deliver water to retail customers. Consequently records are not available, and Upper District can not segregate sales by type of sectors. Upper District has in its records total treated imported water for direct use, untreated imported water for groundwater replenishment and recycled water sold to its sub-agencies. Table 3 summarizes the annual sales for total treated imported water for direct use, untreated imported water for groundwater replenishment, make-up water (no sales since fiscal year 1990-91) and recycled water. As shown in Table 3, total sales for fiscal year 2008-09 were 43,114.2 acre-feet. The following sections discuss past and current water sales to Upper District's sub-agencies for treated imported water for direct use, untreated imported water for groundwater replenishment and recycled water.

4.1.1 TREATED IMPORTED WATER FOR DIRECT USE

Upper District has eight treated imported water service connections with eight of its sub-agencies for direct use. In addition, Upper District has one temporary treated imported water service connection for direct use. Table 4 shows Upper District's service connections, type of use and the maximum capacity of each service connection. Table 5 shows the past and current water sales of treated imported water for direct use by service connections. The sub-agencies with treated imported water service connections for direct use rely on both the water supply from Upper District and the water produced from the Main Basin and Raymond Basin as their total supply for direct use. As shown in Tables 3 and 5, the total treated imported water sales for direct use for fiscal year 2008-09 was 8,532.9 acre-feet. All treated imported water connections have only one meter reported to Upper District from Metropolitan. Therefore, from an accounting standpoint for Upper District, there are no unaccounted-for system losses. However, Metropolitan and the retail agencies may experience unaccounted-for system losses and would be discussed in their own UWMPs.

4.1.2 UNTREATED IMPORTED WATER FOR GROUNDWATER REPLENISHMENT

As discussed in Section 3.2.1.3, Upper District is one of the Responsible Agencies from which the Basin Watermaster purchases Supplemental Water, which is used for groundwater replenishment purposes. Upper District delivers untreated imported water for groundwater replenishment through its service connection, USG-3, as shown in Table 4. Table 5 shows the annual quantity of water sold for replenishment water purposes through USG-3 (and at times through other service connections). As shown in Table 5, the untreated imported water sales as replenishment water for fiscal year 2008-09 was 33,072.1 acre-feet. USG-3 has only one meter reported to Upper District from Metropolitan. Therefore, from an accounting standpoint for Upper District, there are no unaccounted-for system losses. However, Metropolitan and the retail agencies may experience unaccounted-for system losses and would be discussed in their own UWMPs.

4.1.3 RECYCLED WATER

Upper District sells recycled water for direct use to its sub-agencies. Recycled water sales by Upper District began in fiscal year 2002-03. As shown in Table 3, the annual recycled water sold during fiscal year 2008-09 was 1,509.2 acre-feet.

4.2 PROJECTED WATER USE

Section 10631

(2) The water use projections shall be in the same five-year increments described in subdivision (a).

Section 1063.11

Inclusion of projected water use for low-income housing; Legislative intent

- (a) The water use projections required by Section 10631shall include projected water use for single-family and multifamily residential housing needed for lower income households, as defined in Section 50079.5 of the Health and Safety Gode, as identified in the housing element of any city, county or city and county in the service area of the supplier.
- (b) It is the intent of the Legislature that the identification of projected water use for single-family and multifamily residential housing for lower income households will assist a supplier in complying with the requirement under Section 65589.7 of the Government Code to grant a priority for the provision of service to housing units affordable to lower income households.

Upper District prepared water use projections for the next 20 years for treated imported water for direct use, untreated imported water for groundwater replenishment and recycled water for direct use. Water use projections to be made for "lower income households" will be determined by Upper District's member agencies based on their retail customers. A summary of projected water use by Upper District is shown on Table 6 and discussed in the sections below.

4.2.1 TREATED IMPORTED WATER FOR DIRECT USE

Projected treated imported water for direct use is shown in Table 6. As shown in Table 6, it is estimated the treated imported water for direct use is about 3,000 acre-feet for fiscal year 2030-31.

4.2.2 UNTREATED IMPORTED WATER AND RECYCLED WATER PROJECT FOR GROUNDWATER REPLENISHMENT

Projected untreated imported water for groundwater replenishment is also shown in Table 6. As shown in Table 6, it is estimated the untreated imported water for groundwater replenishment is about 23,000 acre-feet for fiscal year 2030-31. In addition to untreated imported water, a potential recycled water project may be available for groundwater replenishment. As shown in Table 6, it is estimated the recycled water project for groundwater replenishment by Upper District could be about 10,000 acre-feet for fiscal year 2030-31. It is excluded from sales, but would directly offset purchases of untreated imported water.

4.2.3 RECYCLED WATER

Projected recycled water sales by Upper District are also shown in Table 6. As shown in Table 6, it is estimated the direct use recycled water sales by Upper District could be about 15,000 acre-feet for fiscal year 2030-31.

Chapter 5

CURRENT CONSERVATION MEASURES

Section 10631

- (f) Provide a description of the supplier's water demand management measures. This description shall include all of the following:
 - (1) A description of each water demand management measure that is currently being implemented, or scheduled for implementation, including the steps necessary to implement any proposed measures, including, but not limited to, all of the following:
 - (A) Water survey programs for single-family residential and multi-family residential customers.
 - (B) Residential plumbing retrofit.
 - (C) System water audits, leak detection, and repair.
 - (D) Metering with commodity rebates for all new connections and retrofit of existing connections.
 - (E) Large landscape conservation programs and incentives.
 - (F) High-efficiency washing machine rebate programs.
 - (G) Public information programs.
 - (H) School education programs.
 - (I) Conservation programs for commercial, industrial and institutional accounts.
 - (J) Wholesale agency programs.
 - (K) Conservation pricing.
 - (L) Water conservation coordinator.
 - (M) Water waste prohibition.
 - (N) Residential ultra-low-flush toilet replacement programs
 - (2) A schedule of implementation for all water demand management measures proposed or described in the plan.
 - (3) A description of the methods, if any, that the supplier will use to evaluate the effectiveness of water demand management measures implemented or described under the plan.
 - (4) An estimate, if available, of existing conservation savings on water use within the supplier's service area, and the effect of the savings on the supplier's ability to further reduce demand.
- (j) Urban water suppliers that are members of the California Urban Water Conservation Council and submit annual reports to that council in accordance with the "Memorandum of Understanding Regarding Urban Water Conservation in California," dated September 1991, may submit the annual reports identifying water demand management measures currently being implemented, or scheduled for implementation, to satisfy the requirements of subdivision (f) and (g)

Upper District is a member of the California Urban Water Conservation Council (CUWCC). As a member of the CUWCC, Upper District signed a Memorandum of Understanding (MOU) pledging to implement "Best Management Measures", which are cost-effective conservation programs. CUWCC amended its MOU in December 2008.

The 14 BMPs have now been organized into five categories. Two categories are Utility Operations and Education, which are referred to as "Foundational BMPs." The other three categories are referred to as "Programmatic BMPs" and are Residential, Commercial/Industrial/Institutional, and Landscape.

For purposes in this Plan the Best Management Practices (BMPs) are equivalent to Demand Management Measures (DMM). According to the UWMP Act, water suppliers that are members of the CUWCC may submit their annual reports to satisfy the requirements of subdivision (f) and (g). Upper District's annual reports for 2005 through 2008, along with CUWCC's coverage reports, are included in this Plan as Appendices J.1 through J.4. A brief description of Upper District's conservation measures and DMMs follow in addition to the new BMP category referred under the CUWCC MOU.

5.1 CURRENT IMPLEMENTED DEMAND MANAGEMENT MEASURES

Section 10631

f) (1) A description of each water demand management measure that is currently being implemented, or scheduled for implementation, including the steps necessary to implement any proposed measures, including, but not limited to, all of the following:

5.1.1 RESIDENTIAL PLUMBING RETROFIT (10631f(1)(B))

The CUWCC refers to this BMP as "Programmatic: Residential." Upper District has annually provided residential plumbing retrofit programs to assist its retailers throughout its service area in cooperation with Metropolitan. Upper District's residential plumbing retrofit programs consist of rebate programs for high-efficiency clothes washer, high-efficiency toilets, rotating nozzles for sprinklers, weather-based irrigation controllers, and synthetic turf. Information and water conservation savings regarding these programs are also located in Metropolitan's draft 2010 RUWMP which is incorporated by reference.

5.1.2 SYSTEM WATER AUDITS, LEAK DETECTION AND REPAIR (10631f(1)(C))

The CUWCC refers to this BMP as "Foundational: Utility Operations - Water Loss Control." Upper District does not have its own distribution system, and relies on Metropolitan's distribution system for delivery of treated and untreated imported water to Upper District's sub-agencies. Therefore, Upper District is not required to fill out a CUWCC annual report on this BMP (System Water Audits, Leak Detection and Repair). Metropolitan has a CUWCC annual report for this BMP (System Water Audits, Leak Detection and Repair). Metropolitan conducts various system water audits and leak detection programs for its entire system. Additional information regarding system water audits, leak detection, repair and water conservation savings can be found in Metropolitan's draft 2010 RUWMP, which is incorporated by reference.

5.1.3 METERING WITH COMMODITY RATES (10631f(1)(D))

The CUWCC refers to this BMP as "Foundational: Utility Operations - Metering." Upper District, in coordination with Metropolitan, meters all water sales for direct use, groundwater replenishment, Make-up Water and separately recycled water. A copy of Upper District's current rate schedule is located in Appendix K. Water conservation savings are not available for this BMP.

5.1.4 LARGE LANDSCAPE CONSERVATION PROGRAMS AND INCENTIVES (10631f (1) (E))

The CUWCC refers to this BMP as "Programmatic: Landscape." Upper District's large landscape conservation program includes the Synthetic Turf Grant School Program. The goal of the Synthetic Turf Grant School Program is to assist schools with funding for retrofitting large landscaped areas with synthetic turf. Through this program, Upper District offers grants of up to \$75,000 per site to assist with the cost of installing synthetic turf. Since the start of the program in fiscal year 2005-06, five schools have participated in this program. Based on an estimated service life of 10 years for

synthetic turf, the total annual water savings for the 5 synthetic turf programs is estimated at 53 acre-feet.

5.1.5 HIGH-EFFICIENCY WASHING MACHINE REBATE PROGRAMS (10631f (1) (F))

The CUWCC refers to this BMP as "Programmatic: Residential." Upper District, in partnership with Metropolitan, State Department of Water Resources, CalFed Bay Delta Program and the U.S. Bureau of Reclamation, offered a residential high-efficiency Residential dwellings (single-family homes, clothes washer rebate program. condominiums, townhouses, apartments or mobile homes) that are located within Upper District's service area could install a high-efficiency clothes washer machine in place of a standard-efficiency washing machine for a rebate. Residences that install a highefficiency washing machine could receive a rebate of \$200 per washer as of 2008-09. The program began in fiscal year 2002-03. Since the program began, a total of 6,656 rebates have been provided. Metropolitan states that this program saves about 10,000 gallons per year per washer over a conventional top loading washer. Based on an estimated service life of 15 years for each washer, the total annual water savings for the 6,656 washers is estimated at 160 acre-feet. Additional information on Upper District's high-efficiency washing machine rebate program can be found on its website and in Appendix L.

5.1.6 PUBLIC INFORMATION PROGRAMS (10631f (1) (G))

The CUWCC refers to this BMP as "Foundational: Education – Public Information Programs." Upper District promotes water conservation through its many public information programs. Upper District offers conservation brochures and posters, activity booklets, public outreach displays, oral presentations, and workshops to inform the public of conservation efforts. Upper District also raises awareness about water conservation through paid advertising, press releases, news ads, media events, and through the Speaker's Bureau. Annually, Upper District hosts a water awareness festival (Water Fest) to raise public awareness about water conservation, water quality

and other water-related issues. Water conservation savings is not available for this BMP. Additional information regarding Upper District's public information programs is located in each of the CUWCC annual reports in Appendices J.1 through J.4 and also can be found on Upper District's website (Appendix L).

In addition, Upper District offers a link to a watering calculator on its website to estimate the right amount of water to use for landscaping and offers friendly gardening tips about water efficient gardening. A description is included in Appendix L.

5.1.7 SCHOOL EDUCATION PROGRAMS (10631f (1) (H))

The CUWCC refers to this BMP as "Foundational: Education – School Education Programs." Upper District directly offers school education programs in an effort to raise awareness of water issues. Upper District started its school education programs in September 1992 and the materials and presentations meet state education framework requirements. The following is a list of Upper District's school educational programs. More information about these programs is located in each of the CUWCC annual reports (Appendices J.1 through J.4).

- Water Awareness Art Contests
- Solar Cup Competition
- Water Education Grant Program
- Annual Art Poster Contest for grades K through 3rd and 4th through 6th
- T-shirt Art Contest for grades 7th through12th
- Water Educational Posters
- Water Resource Library

Upper District also participates in additional educational school programs through Metropolitan, which has extensive educational programs that includes schools within Upper District's boundaries. Metropolitan's educational programs meet state education

framework requirements. A list of Metropolitan's school education programs and water conservation savings is included in Metropolitan's draft 2010 RUWMP, which is incorporated by reference.

5.1.8 CONSERVATION PROGRAMS FOR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL (10631f (1) (I))

The CUWCC refers to this BMP as "Programmatic: Commercial, Industrial, and Institutional." Upper District offers a conservation program for commercial, industrial and institutional facilities (CII). Upper District's program offers commercial, industrial and institutional facilities rebates for retrofitting existing high water-use fixtures with efficient water-use fixtures. The CII program has included the following fixtures:

- 1. Commercial High Efficiency Toilet (includes flushometer, tank, and dual flush)
- 2. Commercial High Efficiency Toilet (new construction)
- 3. Ultra Low Water Urinal (less than 0.25 gallons per flush (gpf) and Zero Water Urinals
- 4. Ultra Low Water Urinal and Zero Water Urinals Upgrade or New Construction
- 5. Water Broom
- Connectionless Food Steamer
- 7. Ice Making Machine Tier III standard
- 8. Dry Vacuum Pump
- 9. Cooling Tower Conductivity Controller
- 10. pH Cooling Tower Controller
- 11. Weather-Based Irrigation Controller and Central Computer Irrigation Controller
- 12. Rotating Nozzles for Pop-up Spray Head Retrofits
- 13. Large Rotary Nozzles

The program began in fiscal year 2000-01. A total of 10,568 rebates have been received through this program. Based on an estimated weighted service life of 19 years for CII rebate program items, the total annual water savings for the 10,568 rebate

program items is estimated at 490 acre-feet. Additional information regarding Upper District's CII program can be found in each of the CUWCC reports and Appendix L of this plan.

5.1.9 WHOLESALE AGENCY PROGRAMS (10631f (1) (J))

The CUWCC refers to this BMP as "Foundational: Utility Operations – Operations." As a wholesaler, Upper District participates in wholesale agency programs, which provide financial incentives for water conservation, technical support through workshops, and available staff for conservation projects. Upper District provides financial incentives for water conservation through its many retrofit and rebate programs that replace high water-use fixtures with efficient water-use fixtures. Upper District provides technical support by conducting workshops for various water conservation programs. Upper District also provides support through available staff assigned to direct conservation measures. Regional programs are also in place that local agencies can participate in to encourage water conservation. Information regarding Upper District's wholesale agency programs is located in both each of the CUWCC annual reports (Appendices J.1 through J.4) and Appendix L. Water conservation savings is not available for this BMP.

5.1.10 CONSERVATION PRICING (10631f (1) (K))

The CUWCC refers to this BMP as "Foundational: Utility Operations – Pricing." Upper District implements conservation pricing to encourage its sub-agencies to conserve water. Attached in Appendix K is Upper District's current rate structure which was approved in October 2009 and is effective October 1, 2009 through December 31, 2010. Information about Upper District's conservation pricing is located in each of the CUWCC annual reports (Appendices J.1 through J.4).

Upper District obtains water from Metropolitan for direct deliveries and through that process passes on Metropolitan's rate structure. Metropolitan's tiered rate structure encourages the development of cost-effective local water resources, including conservation, water recycling, groundwater recycling and desalination. Metropolitan's rate structure includes both Tier 1 and Tier 2 treated water sales. As shown in Appendix K, Upper District's rate structure shows four conservation pricing programs, which are Tiered Rate Structure, Long-term Cyclic Storage, Replenishment Service and Recycled Water. However, due to the implementation of Metropolitan's WSAP during fiscal year 2009-10, Metropolitan does not have a Replenishment Service water program and the replenishment water rates are the same cost as the full service untreated water rates. In addition, Metropolitan has established a WSAP penalty rate for purchasing water over a member agency's WSAP allocation, which prevents its member agencies from purchasing water beyond its WSAP allocation. The WSAP will also be in effect for fiscal year 2010-11. Therefore, Upper District's current rate structure does not take into account the cost of replenishment water rates as the cost of full service untreated water rates. Water conservation savings is not available for this BMP.

5.1.11 WATER CONSERVATION COORDINATOR (10631f (1) (L))

The CUWCC refers to this BMP as "Foundational: Utility Operations – Operations." Upper District employs a Conservation Coordinator to promote water conservation issues and programs. The Conservation Coordinator position was created in September 1992 as a full time position. Water conservation savings is not available for this BMP. Additional information about Upper District's Conservation Coordinator can be found in each of the CUWCC annual reports located in Appendices J.1 through J.4.

5.1.12 WATER WASTE PROHIBITION (10631f(M))

The CUWCC refers to this BMP as "Foundational: Utility Operations – Operations." Upper District is a wholesale water agency, which does not supply water to residential customers, and therefore cannot regulate residential water use. However,

Upper District passed Resolution 6-90-266 in 1990 to reduce water demands within its service area. A copy of Resolution 6-90-266 is located in Appendix N. In addition, Upper District has prepared a draft Urban Water Shortage Contingency Resolution that may be adopted in case of an emergency which will require mandatory reductions in water use within Upper District's service area. A copy of Upper District's draft Urban Water Shortage Contingency Plan is located in Appendix M. Water conservation savings is not available for this BMP.

5.1.13 RESIDENTIAL ULTRA-LOW-FLUSH TOILET REPLACEMENT PROGRAMS (10631f (1) (N))

The CUWCC refers to this BMP as "Programmatic: Residential." High-Efficiency Toilets (HET) is a program implemented by Upper District. HETs are distributed for free to qualifying residents. The cost of the HET is funded by Upper District and Metropolitan. Metropolitan can only provide funding for HETs (1.28 gallons per flush or less), which use 20 percent less than ULFTs (Ultra-Low Flush Toilets) (1.6 gallons per flush). A total of 26,960 HETs/ULFTs have been provided through this program since it first began in fiscal year 1992-93. Based on an estimated service life of 20 years for each HET, the total annual savings for the 26,960 HETs/ULFTs is estimated at 1,005 acre-feet. Information on the HET program is included in Appendix L.

5.2 DEMAND MANAGEMENT MEASURES NOT IMPLEMENTED

Section 10631

- (g) An elevation of each water demand management measure listed in paragraph (1) of subdivision (f) that is not currently being implemented or scheduled for implementation. In the course of the evaluation, first consideration shall be given to water demand management measures, or a combination or measures, that offer lower incremental costs than expanded or additional water supplies. This evaluation shall do all of the following:
 - (1) Take into account economic and non-economic factors, including environmental, social, health, customer impact, and technological factors.
 - (2) Include a cost-benefit analysis, identifying total benefits and total costs.
 - (3) Include a description of funding available to implement any planned water supply project that would provide water at a higher unit cost.
 - (4) Include a description of the water supplier's legal authority to implement the measure and efforts to work with other relevant agencies to ensure the implementation of the measure and to share the cost of implementation.

5.2.1 WATER SURVEY PROGRAMS FOR SINGLE-FAMILY AND MULTI-FAMILY RESIDENTIAL CUSTOMERS (10631f (1) (A))

Upper District is a wholesale agency and does not provide water to residential customers. Upper District supplies water only to local retail agencies within its service area that in turn provide water to residential customers. As a wholesale water agency, Upper District cannot implement a water survey program for Single-Family and Multi-Family residential customers. Upper District does, however, encourage its member agencies to implement this DMM and support its retail agencies' efforts by offering workshops to train retail agency staff on how to conduct residential water surveys. The economic and non-economic factors, cost-benefit analysis, funding available, and legal authority do not apply to Upper District.

Chapter 6

WATER SUPPLY OPPORTUNITIES

6.1 WATER USE PROJECTIONS

Section 10631

(k) Urban water suppliers that rely upon a wholesale agency for a source of water shall provide the wholesale agency with water use projections from that agency for that source of water in five-year increments to 20 years as far as data is available. The wholesale agency shall provide information to the urban water supplier for inclusion in the urban water supplier's plan that identifies and quantifies, to the extent practicable, the existing and planned sources of water as required by subdivision (b), available from the wholesale agency to the urban water supplier over the same five-year increments, and during various water-year types in accordance with subdivision (c). An urban water supplier may rely upon water supply information provided by the wholesale agency in fulfilling the plan informational requirements of subdivisions (b) and (c).

Upper District receives its water from Metropolitan. As required by Section 10631 (k), Upper District annually provides its water use projections to Metropolitan and made a copy of this UWMP available to Metropolitan. Water use projects for the next 20 years are shown on Table 7. Upper District in turn received information from Metropolitan on the existing and planned sources of water, as shown in Appendix I.2. Metropolitan's 2010 UWMP discusses in more detail the factors resulting in its supply.

As an urban wholesale supplier, Upper District is required to receive projections of water use from its retail urban water suppliers. However, retail urban water suppliers' UWMPs are not due until July 2011 and are not completed. However, Upper District has reviewed projected values based on historical trends and projected population. As required by Section 10631 (k), Upper District provided retail urban water suppliers with information on the existing and planned sources of water.

6.2 FUTURE WATER SUPPLY PROJECTS

Section 10631

(h) Include a description of all water supply projects and water supply programs that may be undertaken by the urban water supplier to meet the total projected water uses as established pursuant to subdivision (a) of Section 10635. The urban water supplier shall include a detailed description of expected future projects and programs, other than the demand management programs identified pursuant to paragraph (1) of subdivision (f), that the urban water supplier may implement to increase the amount of water supply available to the urban water supplier in average, single dry, and multiple-dry water years. The description shall identify specific projects and include a description of the increase in water supply that is expected to be available from each project. The description shall include an estimate with regard to the implementation timeline for each project or program.

Upper District receives imported supplemental water from Metropolitan and supplies such water to its sub-agencies. Upper District's sub-agencies also have rights to water supplies of the Main Basin. The management structure of the Main Basin ensures a reliable future water supply. Chapter 3, Section 3.2 provides an extensive description of the Main Basin and provides information on its management. The management structure of the Basin provides a reliability of supply in average, single-dry and multiple-dry water years. Although Upper District overlies a well-managed groundwater basin, it participates in a variety of programs intended to enhance regional water supply as described below. Upper District does not have information regarding the cost and timeline for each of these programs except those programs that Upper District is directly managing. Additional programs are discussed in Chapters 7 and 8.

6.2.1 FUTURE WATER SUPPLY

Due to recent water supply shortages, Upper District is exploring options and looking for possible additional sources of water supply outside of the Main Basin to supplement untreated imported water received from Metropolitan. In addition, Upper District is investigating the possibility of a recycled water project for groundwater replenishment.

6.2.2 UPPER DISTRICT'S DIRECT USE RECYCLED WATER PROGRAM

As part of Upper District's continuing effort to augment Metropolitan imported water supply, Upper District's direct use recycled water program has been developed. A total of about 5,300 acre-feet of recycled water was supplied during fiscal year 2008-09 to irrigation customers in Upper District's service area. Of that amount, 1,500 acre-

feet of recycled water was supplied by Upper District's direct use recycled water program and 3,800 acre-feet of recycled water was supplied by other purveyors within Upper District's service area. The direct use program can potentially supply approximately 15,000 acre-feet of recycled water by fiscal year 2030-31 to potential customers within Upper District's service area, as shown in Table 10. The direct use program has been implemented in four phases. Of the four phases, two phases have been completed in 2007. Discussed below are the other two phases which have not yet been completed.

6.2.3.1 PHASE IIA – ROSEMEAD EXTENSION

Phase IIA-Rosemead Extension expands Phase IIA-Whittier Narrows Project to provide recycled water in the near future to the Whittier Narrows Golf Course, several schools, parks and industrial complexes. The project began construction in September 2009 and is projected to be completed by summer of 2011. Pipeline construction is complete and retrofits are being designed. The facilities for Phase IIA-Rosemead Extension include an approximate 2.5-mile long pipeline. An approximate demand of 720 acre-feet per year of high-quality water is anticipated to be supplied from the Whittier Narrows Water Reclamation Plant. The 720 acre-feet will be available during an average year, single-dry year and multiple dry years.

6.2.3.2 PHASE IIB - INDUSTRY PROJECT

Phase IIB Industry Project is separated into packages. Phase IIB includes the construction of new joint and local conveyance, storage, and distribution facilities, providing improved and extended recycled water service to potential customers in the Cities of West Covina and Walnut. Construction began in 2010 and is projected to be constructed by summer 2013. Phase IIB will supply approximately 1,600 acre-feet per year of recycled water to several landfills, parks, schools, open areas and commercial establishments from the SJCWRP. The 1,600 acre-feet will be available during an average year, single-dry year and multiple dry years.

Chapter 7

URBAN WATER SHORTAGE CONTINGENCY ANALYSIS

7.1 WATER SHORTAGE MANAGEMENT

Section 10632

The plan shall provide an urban water shortage contingency analysis that includes each of the following elements that are within the authority of the urban water supplier.

- (a) Stages of action to be undertaken by the urban water supplier in response to water supply shortages, including up to 50 percent reduction in water supply, and an outline of specific water supply conditions which are applicable to each stage.
- (b) An estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency's water supply.
- (c) Actions to be undertaken by the urban water supplier to prepare for, and implement during, a catastrophic interruption of water supplies including, but not limited to, a regional power outage, an earthquake, or other disaster.
- (d) Additional, mandatory prohibitions against specific water use practices during water shortages, including, but not limited to, prohibiting the use of potable water for street cleaning.
- (e) Consumption reduction methods in the most restrictive stages. Each urban water supplier may use any type of consumption reduction methods in its water shortage contingency analysis that would reduce water use, are appropriate for its area, and have the ability to achieve a water use reduction consistent with up to a 50 percent reduction in water supply.
- (f) Penalties or charges for excessive use, where applicable.
- (g) An analysis of the impacts of each of the actions and conditions described in subdivisions (a) to (f), inclusive, on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts, such as the development of reserves and rate adjustments.
- (h) A draft water shortage contingency resolution or ordinance.
- (i) A mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis.

Upper District's Urban Water Shortage Contingency Plan was adopted by the Board of Directors on March 18, 1992. The Urban Water Shortage Contingency Plan is incorporated in this Plan as reference. A draft of an urban water shortage contingency resolution for Upper District is located in Appendix M. The following sections provide supplemental information regarding Upper District's future water supply during an unexpected problem or shortage and outlines the management structure proposed to meet the water supply requirements during an unforeseen event. Both the programs

and projects described below, and in Chapter 6, collectively help manage Upper District's water supply and may be undertaken to help meet water supply requirements.

Upper District has cooperatively participated in several programs that serve to manage existing water supplies, as described below. These programs have been created to address water supply deficiencies that may arise due to conditions such as drought, failure of water transmission facilities as a result of an earthquake or regional power outage, and contamination of the underlying groundwater basin.

7.2 WATER SHORTAGE ACTIONS

Section 10632

(a) Stages of action to be undertaken by the urban water supplier in response to water supply shortages, including up to 50 percent reduction in water supply, and an outline of specific water supply conditions which are applicable to each stage..

Upper District is a member agency of Metropolitan and as such relies on Metropolitan for all its imported water supplies. According to Metropolitan's 2010 RUWMP, MWD's supply is considered to be in surplus as long as net annual deliveries are made to the water storage programs. Metropolitan's supply is considered to be in a shortage condition when Metropolitan must withdraw water from storage to meet demands. Metropolitan has developed a Water Surplus and Drought Management (WSDM) Plan which is discussed further in the following section and is included in Metropolitan's 2010 RUWMP, which is incorporated by reference.

In addition, Metropolitan adopted the WSAP in February 2008, as discussed in Chapter 3. The WSAP established ten shortage levels and a corresponding reduced Allocation to each member agency. The reduced Allocation will apply to a member agency's retail demand. Additional information about Metropolitan's WSAP is provided in Metropolitan's 2010 RUWMP, which is incorporated by reference, and discussed below. A copy of the WSAP shortage levels is attached in Appendix I.3 and Metropolitan's 50 percent reduction goals is attached in Appendix I.4.

7.2.1 WATER SURPLUS AND DROUGHT MANAGEMENT PLAN

The WSDM Plan was adopted in April 1999 as a management tool for planning during wet and dry years. Upper District participated in Metropolitan's WSDM Plan by jointly participating in the development of the plan through various workshops held by Metropolitan. The WSDM Plan addresses regional water management strategies. The WSDM Plan has specific management actions for seven specific water shortage situations and five surplus situations. The following is a summary of Metropolitan's water shortage stages.

- Stage 1 Metropolitan will continue to make deliveries and may need to make withdrawals from Diamond Valley Lake
- Stage 2 Metropolitan will continue to make deliveries and in addition to Stage 1 actions, might draw water from groundwater storage in other regions.
- Stage 3 Metropolitan may limit the deliveries to the Long-term Seasonal and Replenishment Programs in addition to continuing Stage 2 actions.
- Stage 4 Metropolitan will continue to limit its deliveries as explained in Stage 3 and may draw water from conjunctive use groundwater storage and the State Water Project reservoirs.
- Stage 5 Metropolitan will continue delivery limitations and draw water from other sources as explained in Stage 4. In addition, Metropolitan will coordinate an effort to increase conservation activities and will monitor the effectiveness of ongoing conservation programs.
- Stage 6 Metropolitan will continue Stage 5 actions and in addition may exercise its water supply option contracts or buy water from the open market.
- Stage 7 Metropolitan will discontinue its deliveries to regional storage facilities except on a seasonal basis. In addition will

implement conservation programs and will develop a plan to efficiently and fairly deliver available water supply to its customers.

Additional information about Metropolitan's WSDM Plan is provided in Metropolitan's 2010 RUWMP, which is incorporated by reference.

7.2.2 WATER SUPPLY ALLOCATION PLAN

As discussed in Chapter 3, the WSAP has 10 shortage levels. Depending on Metropolitan's available supply, Metropolitan can establish a specific WSAP shortage level. The shortage level causes a regional reduction and calculates an allocation for each of its member agency. For example, if Metropolitan establishes a Shortage Level 10, the regional reduction is 50 percent. The following is a summary of Metropolitan's water shortage levels.

- Level 1 Regional Percent Reduction of 5%
- Level 2 Regional Percent Reduction of 10%
- Level 3 Regional Percent Reduction of 15%
- Level 4 Regional Percent Reduction of 20%
- Level 5 Regional Percent Reduction of 25%
- Level 6 Regional Percent Reduction of 30%
- Level 7 Regional Percent Reduction of 35%
- Level 8 Regional Percent Reduction of 40%
- Level 9 Regional Percent Reduction of 45%
- Level 10 Regional Percent Reduction of 50%

A copy of Metropolitan's WSAP is provided in Metropolitan's 2010 RUWMP and a copy of Metropolitan's WSAP shortage levels is attached in Appendix I.3. Upper District has estimated WSAP allocations assuming Metropolitan establishes a WSAP shortage level 2.

7.3 WATER SUPPLY AVAILABILITY

Section 10632

(b) An estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency's water supply.

As previously discussed, Metropolitan established a WSAP due to critically dry conditions. Upper District experienced a three-year dry year sequence during 2006-07 through 2008-09 and Metropolitan established a WSAP level 2 during fiscal year 2009-10. The WSAP calculates a reduced Allocation to each member agency. The reduced Allocation is also based on Upper District's sub-agencies' production. If it is assumed Metropolitan will establish a Shortage Level of 2 and production for its sub-agencies is about average, then the estimated Allocation for Upper District is about 17,000 acrefeet. Therefore, it is assumed that Upper District's minimum water supply for the next three years from Metropolitan is about 17,000 acre-feet per year.

7.4 CATASTROPHIC SUPPLY INTERRUPTION

Section 10632

(c) Actions to be undertaken by the urban water supplier to prepare for, and implement during, a catastrophic interruption of water supplies including, but not limited to, a regional power outage, an earthquake, or other disaster.

The following sections discuss the actions to be taken for treated imported water supplies, untreated imported water supplies and recycled water supplies.

7.4.1 TREATED IMPORTED WATER

As noted in Chapter 3, Upper District does not own any physical water facilities. All water facilities for treated imported water belong to Metropolitan and Upper District's retail agencies. Appropriately, Metropolitan and the retail agencies have developed actions to be taken during a catastrophic interruption and are discussed in Metropolitan's 2010 RUWMP and in the retail agencies' draft 2010 UWMP.

In the event of a power outage or earthquake and treated imported water has ceased, Upper District's retail agencies can produce the needed water from the Main Basin and from the Raymond Basin until the appropriate repairs have been made to the retail agencies' connections. Chapter 3 discusses the management and reliability of the Main Basin, which Upper District's sub-agencies can rely on for their primary water supply in case of a catastrophic interruption.

7.4.2 UNTREATED IMPORTED WATER

As noted in Chapter 3, Upper District does not own any physical water facilities. In addition, Upper District does not own the pipeline and connection to USG-3. The pipeline and connection to USG-3 belong to Metropolitan. Appropriately, Metropolitan has developed actions to be taken during a catastrophic interruption and are discussed in Metropolitan's 2010 RUWMP.

In the event of a catastrophic event and untreated imported water from USG-3 has ceased, the Main Basin can endure an event until appropriate repairs have been made to USG-3. Chapter 3 discusses the management and reliability of the Main Basin.

7.4.3 RECYCLED WATER

The agencies that now rely on recycled water for irrigation historically produced groundwater. Therefore, in the event of a catastrophic event and recycled water has been interrupted, those agencies can produce the needed water from the Main Basin for irrigation purposes until the recycled water facility has been repaired. Chapter 3 discusses the management and reliability of the Main Basin, which Upper District's subagencies can rely on for their primary water supply in case of a catastrophic interruption.

7.5 MANDATORY PROHIBITIONS, PENALTIES AND CHARGES

Section 10632

- (d) Additional, mandatory prohibitions against specific water use practices during water shortages, including, but not limited to, prohibiting the use of potable water for street cleaning.
- (f) Penalties or charges for excessive use, where applicable

7.5.1 MANDATORY PROHIBITIONS

Upper District passed a resolution to reduce demands within Upper District's service area. Resolution 6-90-266, included as Appendix N, was passed on June 6, 1990. Upper District Resolution 6-90-266 stated, "There is a need to reduce total demands on all water supply entities within the Upper San Gabriel Valley Municipal Water District service area by 10 percent in 1990 as compared to 1989, to reduce the potential for shortages for this year and even more severe shortages next year". This Resolution was passed to reduce demands to mitigate the effects of the 1990 California drought. Upper District continues to urge its customer's to conserve water and promotes water conservation education through its educational programs and public awareness. However, as a wholesale water agency, Upper District cannot implement or enforce prohibitions, penalties or charges at the retail level.

7.5.2 PENALTIES OR CHARGES

Upper District has adopted a resolution regarding water rates including a Tier 2 rate and penalty rates which can be charged to its member agencies. If a member agency passes the Tier 1 allocation, they will be charged the Tier 2 rate, and possibly a penalty rate which are higher than the Tier 1 rate. This rate structure promotes conservation and discourages excessive use. A copy of Upper District's most recent rate schedule resolution is attached in Appendix K. In addition, Upper District's subagencies implement their own penalties and charges for their retail water customers.

7.6 CONSUMPTION REDUCTION METHODS

Section 10632

(e) Consumption reduction methods in the most restrictive stages. Each urban water supplier may use any type of consumption reduction methods in its water shortage contingency analysis that would reduce water use, are appropriate for its area, and have the ability to achieve a water use reduction consistent with up to a 50 percent reduction in water supply.

As stated in Section 7.2, Metropolitan established the WSAP. The WSAP established 10 shortage levels, which can reduce its regional supply by up to 50 percent at Shortage Level 10. Because Upper District is a member agency of Metropolitan, the WSAP is also applied to Upper District. If Metropolitan implements a Shortage Level 2, the region wide reduction is 10 percent and therefore, Upper District's allocation has been reduced.

7.7 REVENUE IMPACTS

Section 10632

(g) An analysis of the impacts of each of the actions and conditions described in subdivisions (a) to (f), inclusive, on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts, such as the development of reserves and rate adjustments

Upper District generates revenue from several sources including property taxes, a ready-to-serve charge, interest on accumulated funds and surcharges on water sales. In the event of a water shortage, imported water sales may be reduced, which may impact: 1) revenue generated from surcharges on water sales; and 2) accumulated funds.

In 1995, Upper District passed Resolution 4-95-333, which was amended in 2009 by Resolution 2-09-465, to levy a surcharge on all water sales (see Appendix O). Through these Resolutions, Upper District initiated a program to levy a surcharge on all water sales to generate additional revenue. This program has continued and is still maintained today.

Revenue from water sales for Upper District is based on the surcharge for 1) treated direct use and 2) groundwater. The calendar year 2009 rate for full-service,

treated water was \$681, of which about \$102 was a surcharge. The calendar year 2009 rate for full-service, untreated water was \$450, of which about \$38 is a surcharge.

In the event of a shortage of water supply, direct deliveries of treated water could be reduced by 50 percent. During the fiscal year 2008-09, Upper District's treated direct use sales were about 9,000 acre-feet. If direct deliveries were reduced by 50 percent, Upper District's treated direct use requirement would decrease to about 4,500 acre-feet and it would result in a revenue reduction. Based on the current surcharge rate of \$102 per acre-foot for direct deliveries, there would be a loss of revenue of about \$460,000.00.

Upper District would experience a loss of revenue if there was a shortage of water supply; however, Upper District's projected demand for direct deliveries for the next 20 years shows a decreasing trend. Future demands on Metropolitan for direct deliveries are assumed to minimal. Upper District will rely more on untreated imported water for groundwater replenishment and will decrease its demands for treated imported water, as shown in Table 6.

In the event of a shortage of water supply, Replenishment Service water sales could be reduced by up to 100 percent. During fiscal year 2008-09, Upper District's untreated imported water for groundwater replenishment sales (from groundwater cyclic storage) were about 33,000 acre-feet. If sales of untreated imported water for groundwater replenishment ceased, it would result in a revenue reduction. Based on the current surcharge rate of \$38 per acre-foot for full-service, untreated water, there would be a loss of revenue of about \$1,250,000.00 for that year. However, the full-service, untreated water sales for groundwater replenishment continuously has periods of filling and drafting and the revenue from this program will eventually be received.

In fiscal year 2008-09, Upper District's total water revenues were about \$13,700,000; which is about 72 percent of the total revenues (\$18,900,000) during fiscal

year 2008-09. If revenue from water sales was reduced by 50 percent, Upper District would face a reduction in its total revenue of about 64 percent. Upper District may be faced with the necessity to utilize operating reserve funds and/or capital reserve funds to cover fixed operating expenses until normal operating revenues could be reestablished. Significant reductions in District operating and non-operating reserves could postpone or otherwise impact established water supply project and program schedules.

7.8 DETERMINATION OF REDUCTIONS IN WATER USE

Section 10632

(i) A mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis.

Upper District has the ability to monitor water use within its boundaries. Upper District keeps track of local water on a quarterly basis and imported water use on a monthly basis. As discussed in Chapter 3, Upper District does not own any water facilities or meters but receives the data from its retail agencies or from Metropolitan. Such data are then used to determine monthly, quarterly or annual fluctuations in water use. Upper District can compare total water use from one month, one quarter or one year to the next to determine actual reductions in water use. Because the Basin is so reliant upon groundwater supplies, the determination of actual reductions in water use include groundwater production.

Chapter 8

RECYCLED WATER

Section 10633

The plan shall provide, to the extent available, information on recycled water and its potential for use as a water source in the service area of the urban water supplier. The preparation of the plan shall be coordinated with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area, and shall include all of the following:

8.1 BACKGROUND

Upper District currently delivers recycled water to its sub-agencies for direct (irrigation) use only. Upper District is also investigating the possibility of a recycled water project that could provide up to 10,000 acre-feet of treated recycled water for groundwater replenishment by fiscal year 2030-31. Upper District is in the process of expanding its recycled water system to increase direct use deliveries to its sub-agencies. Also, Upper District, in conjunction with San Gabriel Valley Municipal Water District, funded a Master Plan study with Central Basin Municipal for the potential expansion of a regional recycled water distribution system.

8.2 WASTEWATER COLLECTION AND TREATMENT SYSTEMS

Section 10633

(a) A description of the wastewater collection and treatment systems in the supplier's service area, including a quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.

Reclamation of wastewater in the Main Basin has been extensively reviewed in both local and regional studies. In 1976 Upper District and San Gabriel District completed a study entitled "Potential Use of Reclaimed Water for Groundwater Replenishment in the Basin." This study was updated at the request of the Basin Watermaster in 1980 and again in March 1987. In 1979, a cooperative study was completed by Metropolitan and others entitled "Orange and Los Angeles Counties Water Reuse Study." These studies concluded that water reuse in the Basin could be

feasible; however, the cost of utilizing recycled water varies widely with the quantity to be used and the distance required to transport the water from the treatment plant to the point of use.

There are two water reclamation plants in the Basin; WNWRP and SJCWRP. CSD operates both of these facilities. The location of these reclamation plants are shown on Plate 5. The method of disposal when treated recycled water is not used (non-recycled) is discharge to the San Gabriel River/Rio Hondo and eventually flows to the ocean.

The WNWRP, which began operation in 1962, was the first reclamation plant built by the CSD. It has a treatment capacity of about 15 million gallons per day (MGD). The treatment level is coagulation, filtration and disinfection tertiary effluent. The WNWRP serves a population of approximately 150,000 people. During the fiscal year 2008-09, the total water production from this plant was about 5,952.9 acre-feet. The volume of wastewater collected and treated is shown in Table 2.

The SJCWRP, which began operation in 1973, currently has a treatment capacity of about 100 MGD. The treatment level is coagulation, filtration and disinfection tertiary effluent. The SJCWRP has room for an expansion of an additional 25 MGD, although there is no schedule for such an expansion. The SJCWRP plant serves a population of approximately 1 million people, largely a residential population. During fiscal year 2008-09, the total water production from this plant was about 78,803 acre-feet. The volume of wastewater collected and treated is shown in Table 2.

8.3 RECYCLED WATER USE

Section 10633

⁽b) A description of the recycled water currently being used in the supplier's service area, including, but not limited to, the type, place, and quantity of use.

8.3.1 WNWRP

Recycled water use within Upper District's service area from the WNWRP is currently used by Norman's Nursery. During fiscal year 2008-09, 37 acre-feet of recycled water produced from WNWRP was used within Upper District by Norman's Nursery. As part of Phase IIA-Whittier Narrows Project, the Whittier Narrows Recreation Area and South El Monte High School are currently being served (about 850 acre-feet during fiscal year 2008-09). Furthermore, the Whittier Narrows Golf Course, several schools, parks and industrial complexes as part of the Phase IIA-Rosemead Extension will receive up to about 720 acre-feet per year of recycled water, beginning in 2011, and are listed in Table 12. The volume of wastewater collected and treated is shown in Table 2. A summary of the historic recycled water use within Upper District's service area is shown on Table 8.

8.3.2 SJCWRP

Recycled water use during fiscal year 2008-09 within Upper District's service area from the SJCWRP is currently used at the Industry Hills Recreation Area, the California Country Club, J&E's Nursery, Mill Elementary School, Rio Hondo College, J&M Farming, Gateway Pointe Industrial Park, Puente Hills Landfill (includes Materials Recovery Facility which began receiving recycled water in February 2005), Puente Hills Gas-to-Energy Facility, and Rose Hills Memorial Park (includes the lower area which began receiving recycled water in August 2006; previously only the upper area). The volume of wastewater collected and treated is shown in Table 2.

- The Industry Hills Recreation Area began to use recycled water in 1983 and currently uses such water for landscape irrigation at golf courses, an equestrian center and at ornamental lakes. During fiscal year 2008-09, the Industry Hills Recreation Area used 933 acre-feet of recycled water.
- The California Country Club irrigates a 120-acre golf course and during fiscal year 2008-09, 501 acre-feet of recycled water was used.

- The J&E's Nursery used 12 acre-feet of recycled water to irrigate ornamental plants at its five-acre site during fiscal year 2008-09.
- Puente Hills Landfill and the Gas-to-Energy Facility began receiving recycled water in November 1997. The Puente Hills Materials Recovery Facility began receiving recycled water in February 2005. During fiscal year 2008-09, Puente Hills Landfill (including the Materials Recovery Facility) used 1,018 acre-feet of recycled water for landscape irrigation and dust control. The Gas-to-Energy Facility used 586 acre-feet of recycled water for cooling tower supply during fiscal year 2008-09.
- Rose Hills Memorial Park (upper and lower areas) used 1,186 acre-feet of recycled water for landscape irrigation during fiscal year 2008-09.
- J&M Farming began receiving recycled water in September 2000. J&M Farming used 94 acre-feet of recycled water during fiscal year 2008-09.
- Mill Elementary School and Rio Hondo College both started receiving recycled water in June 2003. During the 2008-09 fiscal year, Mill Elementary School used 10 acre-feet of recycled water and Rio Hondo College used 34 acre-feet of recycled water.
- The Gateway Pointe Industrial Park began receiving recycled water in January 2005. During fiscal year 2008-09, the Gateway Pointe used 20 acre-feet of recycled water.

As part of the proposed Phase IIB-Industry Project, several landfills, parks, schools, open areas, and commercial establishments in the cities of West Covina and Walnut will receive recycled water in the near future. A summary of the historic recycled water use within Upper District's service area is shown on Table 8.

Other uses of recycled water include the portion of recycled water used to fulfill the Upper Area's Make-up Water obligation to the Lower Area under the terms of the Long Beach Judgment. When the Lower Area does not receive its full quantity of entitlement water, the Long Beach Judgment allows the Upper Area to reimburse the

Lower Area for its cost of recycled water and such reimbursement is credited as a delivery of Make-up Water requirement with a maximum allowable amount of 14,735 acre-feet. If the quantity exceeds 14,735 acre-feet, imported water must be purchased.

8.3.3 CURRENT DIRECT USE RECYCLED WATER PROGRAM

Upper District may potentially supply up to about 15,000 acre-feet per year of recycled water to customers within Upper District's service area by fiscal year 2030-31, as shown in Table 6. Of the potential supply of 15,000 acre-feet per year of recycled water, about 5,700 acre-feet per year of recycled water is being supplied during fiscal year 2008-09. Recycled water may replace imported water that is currently used for non-potable uses, such as irrigation. Upper District is currently developing a direct reuse recycled water project, which is part of the potential supply of the 15,000 acre-feet of recycled water. The Direct Reuse Project will be implemented in four phases. Capital costs of the Direct Reuse Project totaled about \$52 million, which have been funded through grants (\$19 million), loans (\$19 million) and Upper District reserves (\$14 million). Two of the four phases have been completed, which are discussed below.

8.3.3.1 PHASE I-ROSE HILLS PROJECT

Recycled water from the SJCWRP, which is operated by the County Sanitation Districts of Los Angeles, is currently supplied to San Gabriel Valley Water Company (SGVWC) at a discounted recycled water rate. SGVWC serves the recycled water to various customers for landscape irrigation. The pipeline supplied approximately 660 acre-feet during fiscal year 2008-09 of high-quality recycled water to Mill Elementary School, Rio Hondo College, Rose Hills Memorial Park, and Gateway Pointe Industrial Park.

8.3.3.2 PHASE IIA-WHITTIER NARROWS PROJECT

Phase IIA-Whittier Narrows Project expanded Upper District's recycled water system by providing service to customers in the South El Monte and Whittier Narrows area, with a capacity of 2,500 acre-feet per year. Phase IIA-Whittier Narrows Project

supplied approximately 850 acre-feet during fiscal year 2008-09 of recycled water from the County Sanitation Districts of Los Angeles County Whittier Narrows Water Reclamation Plant to Whittier Narrows Recreation Area and South El Monte High School. The Whittier Narrows Golf Course and South El Monte High School Bus Depot will receive recycled water from Phase IIA-Whittier Narrows Project within the next 5 years. Phase IIA-Whittier Narrows Project decreases the reliance on imported water and reduces the amount of water withdrawn from the Sacramento Delta and Colorado River. The facilities for Phase IIA-Whittier Narrows Project include a pump station and about 18,000 linear feet of pipeline.

8.4 POTENTIAL USES OF RECYCLED WATER

Section 10633

(c) A description and quantification of the potential uses of recycled water, including, but not limited to, agricultural irrigation, landscape irrigation, wildlife habitat enhancement, wetlands, industrial reuse, groundwater recharge, and other appropriate uses, and a determination with regard to the technical and economic feasibility of serving those uses.

CSD released a Health Effects Study in 1984. The Study recommended that the amount of recycled water allowed for groundwater replenishment be increased. As a result, there was an increase in the use of recycled water for groundwater replenishment purposes and future use options are still being considered. In the 1990s, Metropolitan along with the United States Bureau of Reclamation, California Department of Water Resources and Metropolitan member agencies conducted a feasibility study of regional water reclamation. Metropolitan and its member agencies continue to participate in regional planning to explore recycled water projects and plans.

During the calendar year 1994, Upper District participated in a study to determine potential direct users of recycled water. In October 1994, a draft report of the study entitled, "Direct Reuse Study" was released, which identified the potential for recycled water use within the Main San Gabriel Basin. A copy of the draft study is available at the Upper District office and is included by reference.

The Direct Reuse Study identified over 600 potential recycled water users within the San Gabriel Valley consisting of schools, parks, golf courses, nurseries, sand and gravel companies and cemeteries. These direct users of recycled water would be serviced by their retail agencies. A summary of the total potential recycled water use within the Main Basin are shown on Table 9. The quantity of potential recycled water users in Table 10 applies to each year (including 2015, 2020, 2025 and 2030).

8.5 PROJECTED USE OF RECYCLED WATER

Section 10633

(d) The projected use of recycled water within the supplier's service area at the end of 5, 10, 15 and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected pursuant to this subdivision.

Upper District is investigating the possibility of a recycled water project for groundwater replenishment of the Main San Gabriel Groundwater Basin. In addition to using recycled water for groundwater replenishment, Upper District is developing plans to expand the existing direct use of recycled water for irrigation. Table 10 provides an estimation of the total projected recycled water use by Upper District and their retail purveyors at the end of 5, 10, 15 and 20 years. Table 11 shows the 2005 UWMP projected recycled water use for fiscal year 2010-11 and compares it to actual 2010 recycled water use.

8.6 FUTURE PLANS FOR RECYCLED WATER

Section 10633

- (e) A description of actions, including financial incentives, which may be taken to encourage the use of recycled water, and the projected results of these actions in terms of acre-feet of recycled water used per year.
- (f) A plan for optimizing the use of recycled water in the supplier's service area, including actions to facilitate the installation of dual distribution systems, to promote recirculating uses, to facilitate the increased use of treated wastewater that meets recycled water standards, and to overcome any obstacles to achieving that increased use.

Upper District's direct use recycled water program is part of Upper District's effort to reduce reliance on an imported water supply, provide an economic benefit as well as enhancing local water supply reliability. As previously discussed in Section 8.3.3, the

Phase I and Phase IIA-Whittier Narrows Project of Upper District's direct use recycled water program are in operation. The other two phases, Phase IIA-Rosemead Extension and Phase IIB-Industry Project, are under construction and in various stages of progress. In addition to the direct use program, Upper District is investigating the possibility of a recycled water project for groundwater replenishment. The recycled water project could produce up to 10,000 acre-feet per year of recycled water for groundwater replenishment by fiscal year 2030-31. The following sections provide information regarding the Upper District's direct use program. Table 12 summarizes the potential demands of recycled water within Upper District as a result of Upper District's direct use program.

8.6.1 DIRECT USE RECYCLED WATER PROGRAM

Upper District may potentially supply about 15,000 acre-feet per year by fiscal year 2030-31 of recycled water to current customers within Upper District's service area. Recycled water will replace imported water that is currently used for irrigation. As previously discussed in Section 8.3.3, as part of the 15,000 acre-feet of potential recycled water supply, Upper District is developing the direct use program. The Direct Reuse Program is separated into four phases. Two of the four phases have not yet been completed and are discussed below.

8.6.1.1 PHASE IIA-ROSEMEAD EXTENSION

Phase IIA-Rosemead Extension expands Phase IIA-Whittier Narrows Project to provide recycled water in the near future to the Whittier Narrows Golf Course, several schools, parks and industrial complexes. The pipeline has been constructed and retrofits are being designed. The facilities for Phase IIA-Rosemead Extension include an approximate 2.5-mile long pipeline. An approximate demand of 720 acre-feet per year of high-quality water is anticipated to be supplied from the WNWRP. Upper District has received approximately \$1.7 million in United States Bureau of Reclamation and MWD grant funding for Phase IIA – Rosemead Extension. Upper District has also received LRP funding from MWD.

8.6.1.2 PHASE IIB-INDUSTRY PROJECT

Phase IIB is separated into at least four Packages. Portions of Package 1 are in the process of being constructed while a portion is about to begin construction; Package 2 is about to begin construction; Package 3 and Package 4 are about to begin design. Phase IIB includes the construction of new joint and local conveyance, storage, and distribution facilities, providing improved and extended recycled water service to potential customers in the Cities of West Covina and Walnut. Phase IIB will supply approximately 1,600 acre-feet per year of recycled water to several landfills, parks, schools, open areas, and commercial establishments from the SJCWRP. Upper District has received approximately \$11.8 million in United States Bureau of Reclamation and State Water Resources Control Board grant funding for Phase IIA — Rosemead Extension. Upper District has received approximately \$23.6 million in State Water Resources Control Board loans. Upper District has also received LRP funding from MWD.

The facilities for Phase IIB include backbone and local delivery pipelines, booster pumping stations, storage reservoirs and system appurtenances. The new backbone delivery facilities, including inter-agency pipelines, pump stations and storage tanks will be constructed cooperatively by the participating agencies. The local distribution mains, booster pump stations, and several storage tanks will be built as components of this project.

8.6.2 RECYCLED WATER SALES

A total of about 5,300 acre-feet of recycled water was supplied during fiscal year 2008-09 to irrigation customers in Upper District's service area. Of that amount, 1,500 acre-feet of recycled water was supplied by Upper District's direct use recycled water program and 3,800 acre-feet of recycled water was supplied by other purveyors within Upper District's service area. In addition, Upper District's recycled water project will use recycled water to supplant untreated imported water, for groundwater replenishment in

the future. Upper District's current recycled water rates vary from \$175/acre-feet to \$470/acre-feet depending upon Upper District's actual cost of delivery to the end user. The recycled water rates are established through long-term contracts with the participating retail agency. The rates are set to create an economic incentive to maximize the use of recycled water for irrigation applications, while reducing demand on potable supplies, for irrigation applications.

Chapter 9

WATER QUALITY

Section 10634

The plan shall include information, to the extent practicable, relating to the quality of existing sources of water available to the supplier over the same five-year increments as described in subdivision (a) of Section 10631, and the manner in which water quality affects water management strategies and supply reliability.

9.1 WATER QUALITY SUMMARY

The water supply to Upper District's sub-agencies meets all state and federal water quality standards. The potable water supply within Upper District comes from two main sources: the Main Basin and Metropolitan.

9.1.1 GROUNDWATER FROM THE MAIN BASIN

Water produced within the Main Basin historically had been impacted by manmade contaminants in certain areas and at varying depths. The Basin Watermaster, in
coordination with Upper District, has worked with state and federal regulators, along
with local water companies to clean up water supplies. As of fiscal year 2008-09, the
Main Basin has 30 treatment facility sites which have been constructed and operated to
remove contaminants from the groundwater. Wells which pump potable water from the
Main Basin meet the California Department of Public Health's drinking water standards.
Therefore, the existing quality of the groundwater does not affect the groundwater
supply within Upper District boundaries for 2010, 2015, 2020, 2025 and 2030, as shown
in Tables 13 and 14.

As discussed in detail in Section 3.2.1.4, the Basin Watermaster prepares and annually updates the Five-Year Water Quality and Supply Plan in accordance with the requirements of Section 28 of its Rules and Regulations. The objective of the Five-Year Water Quality and Supply Plan is to coordinate groundwater-related activities so that

Chapter 10

WATER SUPPLY RELIABILITY

Section 10635

(a) Every urban water supplier shall include, as part of its urban water management plan, an assessment of the reliability of its water service to its customers during normal, dry, and multiple dry years. This water supply and demand assessment shall compare the total water supply sources available to the water supplier with the total projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry year water year, and multiple dry water years. The water service reliability assessment shall be based upon the information compiled pursuant to Section 10631, including available data from state, regional, or local agency population projections within the service area of the urban water supplier.

10.1 RELIABILTY OF UPPER DISTRICT'S WATER SUPPLY

This chapter discusses Upper District's water service reliability assessment. Upper District's supply and demand will be compared over the next 20 years during normal, dry and multiple dry years. In addition, the water service reliability assessment will take into account Senate Bill No. 7. In November 2009, Senate Bill No. 7 was approved by the state of California's Governor, which requires all urban retail suppliers to reduce its capita water use by 20 percent by 2020. As an Urban Wholesale Water Supplier, Upper District will discuss in the following sections how Senate Bill No. 7 was applied to its water supply reliability calculations and how Senate Bill No. 7 was assessed in present and proposed future measures, programs and policies.

10.1.1 SENATE BILL NO. 7 REQUIREMENTS

Senate Bill No. 7 requires the state of California to "...achieve 20 percent reduction in urban per capita water use in California by December 31, 2020. The state would be required to make incremental progress towards this goal by reducing per capita water use by at least 10 percent on or before December 31, 2015." In addition, Senate Bill No. 7 requires Urban Wholesale Water Suppliers

to "...include in the urban water management plans...an assessment of their present and proposed future measures, programs, and policies to help achieve the water use reductions required by this part."

Upper District has implemented water conservation measures that will assist its retail agencies with reducing per capita water demands and ultimately achieve the Senate Bill 7 requirements. Water conservation activities are addressed in Chapter 5 (Demand Management Measures) and Chapter 8 (Recycled Water Opportunities). In addition, Upper District is a member of the CUWCC and has implemented its BMPs, which is discussed in Chapter 5. For the purpose of this plan, Upper District has assumed its sub-agencies' per capita water use may be reduced by 10 percent by 2015 and by 20 percent by 2020, which has been applied to Table 13. Senate Bill No. 7 requires urban retail water suppliers to first "...estimate its average gross water use, reported in gallons per capita per day and calculated over a continuous 10-year period ending no earlier than December 31, 2004, and no later than December 31, 2010." Consequently, Upper District estimated its sub-agencies' highest gallon per capita per day based on the required periods, which was estimated to be 179.2 gallons per capita per day (gpcd), as shown on Table 13. Upper District assumed the estimated average capita water use of 179.2 gpcd may be reduced by 10 percent in 2015 and by 20 percent in 2020, as shown on Table 13 (shown under the "Water Demand" column). With the reduced capita water use, the estimated local demand (production) from Upper District's sub-agencies has also been assumed to be reduced in 2015 and 2020. As discussed in Chapter 3, the WSAP allocation is dependent on Upper District's local production and, therefore, the reduced capita water use will increase Upper District's WSAP allocation.

As previously discussed in Chapter 3, Upper District's sub-agencies rely on water supply from: 1) Metropolitan imported water supply; and 2) Main Basin

groundwater. The following sections will discuss the reliability of imported water supply from Metropolitan and groundwater from the Main Basin.

10.1.1.1 IMPORTED WATER FROM METROPOLITAN

Upper District is a wholesale agency that supplies treated imported water from Metropolitan to its sub-agencies for direct use and supplies untreated imported water for groundwater replenishment. Table 14 compares Upper District's demand and supply on treated and untreated imported water from Metropolitan during a normal year. It is assumed under a normal year Metropolitan's WSAP is not applied. Table 14 shows that Upper District will be able to provide both treated imported water for direct deliveries and untreated imported water for Replacement Water for the next 20 years during a normal year.

It is assumed the WSAP is implemented when Metropolitan has restricted water supply during single dry and multiple dry years. As discussed in Chapter 3, the WSAP allocation is based on local demand from the Main Basin, therefore, the WSAP allocation can be estimated for the next 20 years based on reduced capita water use from Senate Bill No. 7 previously discussed. Tables 15 and 16 compares Upper District's demand and supply on imported water from Metropolitan during single dry and multiple dry years. As shown in Tables 15 and 16, Upper District will be able to provide both treated imported water for direct deliveries and untreated imported water for Replacement Water within its WSAP allocation for the next 20 years during single dry and multiple dry years.

In addition, Metropolitan's 2010 RUWMP has concluded that the region can provide reliable water supplies under both the single driest year and the multiple dry year hydrologies for the next 20 years. The 2010 RUWMP prepared by Metropolitan, which is incorporated by reference, should be referred to for more details on the reliability of Metropolitan's imported water supplies. Also,

attached in Appendix I.2 are tables comparing Metropolitan's demand and supplies during an average year, singe dry year and multiple dry years over the next 20 years in five year increments. The tables in Appendix I.2 show that Metropolitan can meet its demands during average, single dry and multiple dry years.

10.1.1.2 GROUNDWATER FROM THE MAIN BASIN

Upper District's sub-agencies produce water from the Main Basin. The amount of basin recharge affects the elevation of the Key Well, which represents changes in the groundwater basin. As shown on Figure 1, the Main Basin historically goes through phases of drafting, which are followed by filling. As noted in Chapter 3, the Main Basin is a well-managed groundwater basin and can ensure long-term reliability of water supply. Additional information on the reliability of the groundwater basin and the elevation of the Key Well is discussed in Chapter 3.

TABLE 1A

ANNUAL RAINFALL IN THE SAN GABRIEL VALLEY FROM 1958-59 THROUGH 2008-09*

WATER YEAR	RAINFALL IN INCHES
1958-59	8.5
1959-60	10.6
1960-61	5.9
1961-62	22.4
1962-63	12.3
1963-64	9.4
1964-65	15.2
1965-66	19.6
1966-67	25.0
1967-68	15.0
1968-69	30.5
1969-70	11.1
1970-71	13.3
1971-72	8.5
1972-73	22.4
1973-74	16.8
1974-75	14.9
1975-76	12.1
1976-77	14.5
1977-78	38.4
1978-79	23.9
1979-80	34.8
1980-81	10.3
1981-82	18.9
1982-83	39.3
1983-84	10.6
1983-64	14.6
1985-86	22.0
	9.1
1986-87 1987-88	14.9
	11.2
1988-89	12.4
1989-90	15.1
1990-91	22.8
1991-92	35.9
1992-93	11.6
1993-94	30.4
1994-95	15.6
1995-96	17.5
1996-97	36.1
1997-98	8.6
1998-99	14.4
1999-00	15.5
2000-01	6.4
2001-02	19.4
2002-03	19.4
2003-04	
2004-05	45.3 16.8
2005-06	16.8 4.9
2006-07	
2007-08	16.4
2008-09	14.0
TOTAL	907.8
51-YEAR AVERAGE	17.8

^{*}Annual rainfall determined as the average of rainfall at San Dimas (station 95), Pomona[†] (station 356C), El Monte (station 108D), and Pasadena (station 610B).

[†]Pomona (station 356C) replaced Walnut (station 102D) in 2000-01.

Table 1B Climate

•	January	February	March	April	Мау	June	July	August	September	October	November	December	Annual
Average Rainfall (in.)	3.6	5.5	1.9	1.2	0.5	0.1	0.0	0.0	0.2	1.0	4.	2.4	17.8
Average Temperature (°F)	25	54	26	26	61	69	72	77	92	2	61	22	63.8
Evapotranspiration (in.)	2.2	2.8	4.0	5.1	5.9	9.9	7.4	6.8	5.7	4.0	2.7	1.9	55.1

Source: Rainfall data from average of four LA County Department of Public Works rainfall stations. Temperature data from www.city-data.com for San Gabriel Valley. Evapotranspiration data from California Irrigation Management Information System.

TABLE 2
WASTEWATER COLLECTED AND TREATED (ACRE-FEET)

CALENDAR YEAR	WHITTIER NARROWS WATER RECLAMATION PLANT	SAN JOSE CREEK WATER RECLAMATION PLANT	TOTAL
2000	8,536.0	98,435.7	106,972
2005	8,031.4	93,271.8	101,303
2010	7,863.4	77,920.6	85,784
2015	8,000 (EST)	90,000 (EST)	98,000 (EST)
2020	8,000 (EST)	90,000 (EST)	98,000 (EST)
2025	8,000 (EST)	90,000 (EST)	98,000 (EST)
2030	8,000 (EST)	90,000 (EST)	98,000 (EST)

Source: Sanitation Districts of Los Angeles County

TABLE 3

HISTORIC UPPER DISTRICT WATER SALES BY CATEGORY OF USE FISCAL YEAR 1973-74 THROUGH 2008-2009 (Acre-feet)

Fiscal Year	Treated Direct Use 1/	Untreated Replenishment 2/	Make-up	Recycled Water 3/	Totals
1973-74	184.6	0.0	0.0		184.6
1974-75	255.4	13,731.9	0.0		13,987.3
1975-76	226.6	7,121.4	0.0		7,348.0
1976-77	3,330.7	10,752.6	14,510.8		28,594.1
1977-78	4,694.2	27,636.0	0.0		32,330.2
1978-79	5,600.1	24,000.0	0.0		29,600.1
1979-80	6,130.4	4,740.6	7,750.0		18,621.0
1980-81	7,510.5	0.0	32,650.0		40,160.5
1981-82	6,825.4	40,824.7	18,325.0		65,975.1
1982-83	7,282.9	22,934.4	8,600.0		38,817.3
1983-84	8,276.9	1,573.6	13,255.0		23,105.5
1984-85	10,025.2	0.0	0.0		10,025.2
1985-86	10,220.3	3,000.0	0.0		13,220.3
1986-87	10,431.9	25,000.1	0.0		35,432.0
1987-88	13,318.7	33,000.0	4,599.0		50,917.7
1988-89	12,093.3	39,100.0	5,077.0		56,270.3
1989-90	13,969.0	46,338.0	11,082.0		71,389.0
1990-91	13,390.7	45,402.0	100.0		58,892.7
1991-92	12,621.9	60,768.5	0.0		73,390.4
1992-93	10,205.1	42,314.2	0.0		52,519.3
1993-94	7,635.1	4,082.0	0.0		11,717.1
1994-95	7,396.8	0.0	0.0		7,396.8
1995-96	6,817.0	15,467.8	0.0		22,284.8
1996-97	6,924.6	17,988.7	0.0		24,913.3
1997-98	7,404.1	35,410.6	0.0		42,814.7
1998-99	7,131.2	13,794.1	0.0		20,925.3
1999-00	11,151.1	13,645.6	0.0		24,796.7
2000-01	9,070.2	17,013.0	0.0		26,083.2
2001-02	18,346.1	25,232.3	0.0		43,578.4
2002-03	20,686.5	33,551.4	0.0	7.4	54,245.4
2003-04	27,674.5	34,166.2	0.0	14.6	61,855.3
2004-05	12,895.3	39,056.5	0.0	44.7	51,996.5
2005-06	10,981.3	57,069.2	0.0	52.2	68,102.7
2006-07	14,290.1	7,861.2	0.0	1,430.0	23,581.3
2007-08	9,607.0	21,603.8	0.0	1,700.9	32,911.7
2008-09	8,532.9	33,072.1	0.0	1,509.2	43,114.2

^{1/} Includes direct deliveries of treated water to the City of Alhambra

^{2/} Includes sales of Cyclic Storage to Watermaster and producers

^{3/} Recycled Water Sales for Direct Use by Upper District began in fiscal year 2002-03.

TABLE 4

SERVICE CONNECTION INFORMATION WITHIN UPPER DISTRICT'S SERVICE AREA

Connection		Maximum	Metropolitan	Treated (T) /	<u>.</u>
Number	User	Capacity (crs)	Service reeder	Untreated (U)	Ose
USG-1T*	Valley County Water District	7	Middle	F	Domestic
USG-01	Golden State Water Company	7.5	Middle	⊢	Domestic
USG-02	City of South Pasadena	10	Palos Verdes	⊢	Domestic
USG-03	Upper District	400	Foothill	n	Replenishment
USG-04	Suburban Water System	20	Middle	⊢	Domestic
USG-05	City of Alhambra	7.5	Cross	⊢	Domestic
90-5SN	City of Arcadia	20	Upper	⊢	Domestic
USG-07	City of Monrovia	40	Upper	⊢	Domestic
NSG-08	Azusa Valley Water Company	7.5	Middle	⊢	Domestic
60-9SN	Valley County Water District	30	Middle	⊢	Domestic

^{*}Temporary Service Connection

TABLE 5

HISTORIC UPPER DISTRICT WATER DELIVERIES BY SERVICE CONNECTION FISCAL YEAR 1973-74 THROUGH 2008-2009

(Acre-feet)

MAKE-UP WATER	CENB-36	CENB-28 CENB-48 2/	0.0	0.0	0.0	14,510.8	0.0	0.0	7,750.0	32,650.0	18,325.0	8,600.0	13,255.0	0.0	0.0	0.0	4,599.0	5,077.0	11,082.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	UNTREATED	REPLENISHEMNT WATER 1/	0.0	13.731.9	7,121.4	10,752.6	27,636.0	24,000.0	4,740.6	0.0	40,824.7	22,934.4	1,573.6	0.0	3,000.0	25,000.1	33,000.0	39,100.0	46,338.0	45,402.0	60,768.5	42,314.2	4,082.0	0.0	15,467.8	17,988.7	35,410.6	13,794.1	13,645.6	17,013.0	25,232.3	33,551.4	34,166.2	39,056.5	57,069.2	7,861.2	21,603.8	33,072.1
		Total	184.6	255.4	226.6	3,330.7	4,694.2	5,600.1	6,130.4	7,510.5	6,825.4	7,282.9	8,276.9	10,025.2	10,220.3	10,431.9	13,318.7	12,093.3	13,969.0	13,390.7	12,621.9	10,205.1	7,635.1	7,396.8	6,817.0	6,924.6	7,404.1	7,131.2	11,151.1	9,070.2	18,346.1	20,686.5	27,674.5	12,895.3	10,981.3	14,290.1	9,607.0	8,532.9
		6-9SN	ı	ŀ	ł	ŀ	ŀ	ł	1	i	ŀ	ı	1	ŀ	1	ı	ı	1	1	ı	1	ı	ł	1	1	0.0	0.0	0.0	0.0	0.0	0.0	529.7	8,114.4	123.0	0.0	0.1	0.0	0.0
(221)	щ	USG-8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.5	332.7	1,049.1	780.6	728.2	1,482.7	360.1	312.9	7.64.7	151.7	1.7	1.5	0.0	83.2	78.7	32.3	171.9	12.9	0.0	148.9	2,100.3	1,975.1	1,110.3	662.9	1,207.0	336.3	178.9
(אַרוביונים)	DIRECT US	USG-7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	5.4	4.7	10.4	3.3	5.9	171.2	261.8	81.7	2.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.1	0.0	0.8	5.1	0.0	0.0	0.2
	PORTED WATER FOR DIRECT USE	USG-6	0.0	0.0	0.0	0.0	9.0	0.0	0.0	192.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	631.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	540.5	0.0	0.0	0.0	95.3	1,398.9
		USG-5	0.0	0.0	0.0	2,654.9	2,981.7	3,486.1	3,191.0	3,130.7	2,853.7	2,256.3	1,907.1	2,395.5	2,600.8	2,484.2	3,751.3	3,726.6	1,716.1	2,734.1	2,214.0	3,214.0	3,214.0	3,178.1	3,149.9	3,304.5	3,392.7	3,353.4	3,508.3	3,285.3	3,438.9	3,018.3	3,058.3	2,998.0	2,815.5	2,963.3	3,027.2	3,064.9
	TREATED IM	USG-4	0.0	00	34.8	494.7	1,663.5	1,717.3	2,555.8	4,064.6	3,925.3	4,523.0	6,010.9	6,264.6	6,519.3	7,057.9	7,752.0	7,620.3	9,484.6	7,762.2	9,093.1	6,989.4	4,418.0	4,115.1	3,336.7	3,419.2	3,645.4	3,147.4	5,432.9	5,048.8	11,434.8	14,038.7	12,822.0	7,315.7	6,489.6	9,482.7	5,405.8	3,543.7
		USG-2	66	00	6.0	5.6	21.8	2.1	3.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	131.8	0.0	0.0	0.0	0.0	8.66	243.7	115.1	253.8	444.5	2,160.5	550.2	3,097.6	607.5	123.9	209.2	73.5	177.9	458.2	179.7
		USG-1	174.7	255.4	185.8	175.5	26.6	394.6	380.2	120.9	45.9	36.5	20.8	73.1	309.2	9.66	59.1	83.1	40.3	40.2	0.0	0.0	1.6	3.5	3.5	7.1	79.9	14.0	36.5	182.0	225.9	391.9	1,040.3	1,138.3	934.7	459.1	284.2	166.6
		USG-IT	,			ı	1	1	Į	1	1	436.6	0.0	238.2	0.0	58.7	267.7	132.0	2,021.5	1,376.1	1,161.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Fiscal Year*	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09

^{*}July 1 through June 30.

^{1/} Sales of untreated Replacement Water and Cyclic Storage. 2/ Deliveries of untreated Make-up Water.

TABLE 6

PROJECTED SALES BY UPPER DISTRICT FISCAL YEAR 2008-09 THROUGH 2030-31 (ACRE-FEET)

				Potential Recycled Water	
Fiscal Year	Treated Water for Direct Use	Untreated Water for Replenishment	Recycled Water for Direct Use	Project for Groundwater Replenishment	Total Water Sales ^{1/}
2008-09	5,420	24,900	5,700		36,020
2010-11	5,700	21,000	6,000	ne s	32,700
2015-16	3,000	25,000	7,500		35,500
2020-21	3,000	16,000	10,000	5,000	29,000
2025-26	3,000	19,000	12,500	5,000	34,500
2030-31	3,000	23,000	15,000	10,000	41,000

Note:

^{1/} Excludes recycled water for groundwater replenishment. Assuming a Recycled Water Project is implemented, it would offset an equal amount of "Untreated Water for Replenishment."

TABLE 7

PROJECTED WATER USE OF IMPORTED WATER SUPPLY FROM METROPOLITAN FISCAL YEAR 2008-09 THROUGH 2030-31 (ACRE-FEET)

Imported Water Supply from Metropolitan

	miporte	or trater employ mem me.	
Fiscal Year	Direct Use	Replenishment Water	Total Imported
2008-09	5,420	24,900	30,320
2010-11	5,700	21,000	26,700
2015-16	3,000	25,000	28,000
2020-21	3,000	16,000	19,000
2025-26	3,000	19,000	22,000
2030-31	3,000	23,000	26,000

HISTORIC RECYCLED WATER USE WITHIN UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT (Acre-feet)

TOTAL RECREATION AREA HIGH SCHOOL **EL MONTE** SOUTH NARROWS WHITTIER **GATEWAY** COLLEGE POINTE 29 HONDO ELEMENTARY SCHOOL 144 179 187 65 37 69 FARMING 1 1 1 1057 J&M 1 1 1 1 1 1 1 1 1 1 1 1 408 338 275 449 **ROSE HILLS** 334 446 527 MEMORIAL PARK⁴ ENERGY 586 498 563 FACILITY³ 656 544 624 501 594 608 605 586 GAS-TO-LANDFILL² 1,193 742 ,063 751 PUENTE HLLS 0 - 0 5 4 4 4 4 8 5 NURSERY¹ J&E'S CALIFORNIA 380 387 365 439 489 394 392 463 430 422 389 452 356 COUNTRY CLUB 824 1,023 923 1,103 1,048 1,139 835 906 994 927 696 RECREATION INDUSTRY HILLS AREA 39 37 39 39 42 53 53 67 77 77 66 66 56 1 1 NORMAN'S NURSERY 2003-04 FISCAL 1999-00 1998-99 2001-02 2002-03 2004-05 1994-95 96-566 1997-98 YEAR 1990-91 1991-92 1992-93 1993-94 1996-97 2000-01

1,423 1,362 1,549 1,688 1,926 3,390 3,627 3,154 3,448 3,225 3,919 3,070 3,240 5,535 5,651 5,276

1,442

<u>8</u>

1437

447

1049

882

401

2005-06

2006-07 2007-08 2008-09

500

Formerly occupied by Arbor Nursery and Chuy's Nursery; began receiving recycled water in April 2006

Materials Recovery Facility began receiving recycled water in February 2005 21 67 44 45 60 7-80

Puente Hills Gas-to-Energy Facility

The lower area began receiving recycled water in August 2006; previously only the upper area

Recycled Water Use for November 1997 - June 1998

Recycled Water Use for June 1998

Recycled Water Use for September 2000 - June 2001

Recycled Water Use for June 2003

Table 9

SUMMARY OF POTENTIAL MAIN SAN GABRIEL BASIN RECYCLED WATER USERS

TYPE OF WATER USER	NUMBER OF USERS	(Acre-feet/Year) VOLUME OF RECYCLED WATER
Industrial	50	6,372
Nurseries & Cemeteries	35	4,715
Schools	306	3,018
Golf Courses	14	2,923
Parks	96	1,930
Commercial Irrigation	29	815
Freeway Landscape	25	628
Street Medians	54	283
TOTAL	609	20,684

Source: Draft Direct Use Study, 1994, Table 3-1,

Table 10

PROJECTED RECYCLED WATER USE (In Acre-feet per Year)

REPLENISHMENT

Table 11

COMPARISON OF 2005 PROJECTION OF RECYCLED WATER USE FOR 2010 WITH ACTUAL 2010 USE (In Acre-feet per Year)

2010 ACTUAL USE	0 0,000 6,000
2005 PROJECTION FOR 2010	0 <u>9,235</u> 9,235
USER TYPE	Replenishment Direct Use Total

TABLE 12

UPPER DISTRICT'S RECYCLED WATER PROGRAM POTENTIAL RECYCLED WATER DEMANDS FROM (ACRE-FEET)

POTENTIAL

PHASE	USERS	RECYCLED WATER DEMANDS
-	Rose Hills (Existing) Mill Elementary School, Rio Hondo College, Rose Hills Memorial Park and Gateway Pointe Industrial Park ¹	1,190
V II	Whittier Narrows Project (Existing) Whittier Narrows Recreation Area, South El Monte High School ²	890
Y	Rosemead Extension (Underway) Norman's Nursery, Loma Elementary School, Whittier Narrows Golf Course, Edison Capital Buildings, Willard Elementary School, Zapopan Park, Wal-Mart, University of the West, Sunshine Nursery, Panda Restaurant Group, Rice Eldridge Elementary School, City of Rosemead (Street Medians), Jess Gonzales Sports Park	720
(Package 1) (Package 2) (Package 3) (Package 3)	Industry (Underway BKK Landfill, Big League Dreams, Shopping Center, Woodgate Park, Amar Medians South Hills Country Club, Hollencrest Elementary School, Vine Elementary School, Galster Wilderness Park, Greenbelt on Azusa Avenue Creekside Park, Elementary School, Shadow Oak Park, Arroyo Butterfield Park, Greenbelt (City of Walnut) Giano Junior High School, Villacorta Elementary School, Gingrich Park, Green Belt Area north of Shadow Oak and Woodgate, Green Belt Area south of Shadow Oak and	700 380 220 295
	Woodgate	

Phase I has been completed and users are currently receiving recycled water as shown in Table 9
 The Whittier Narrows Recreation Area and South El Monte High School are currently receiving recycled water as shown in Table 9

TABLE 13

PROJECTED WATER PRODUCTION, IMPORTED WATER SUPPLY, AND RECYCLED WATER USE WITHIN UPPER DISTRICT FISCAL YEAR 2008-09 THROUGH 2030-31

Water Demand (gpcd) ^[2]	173.7	163.9	162.9	161.8	143.9	143.9	143.9
Potential Recycled Water Project for Groundwater Replenishment (AF)	1	1	1	1	2,000	2,000	10,000
Replacement Water Obligation (AF)	24,900	21,000	21,000	25,000	16,000	19,000	23,000
Subtotal/Balance MWD WSAP Allocation (AF)		24,400	26,300	28,000	42,000	40,000	38,000
Less: Direct Use (AF)	5,420	009'9	5,700	3,000	3,000	3,000	3,000
MWD WSAP Allocation ^[1] (AF)	1	31,000	32,000	31,000	45,000	43,000	41,000
Net Estimated Local Demand (AF)	172,254	156,786	157,101	162,739	146,118	148,495	150,747
Less: Direct Use Recycled Water (AF)	5,700	5,900	000'9	7,500	10,000	12,500	15,000
Total Estimated Local Demand (AF)	177,954	162,686	163,101	170,239	156,118	160,995	165,747
Fiscal Year	2008-09	2009-10	2010-11	2015-16	2020-21	2025-26	2030-31

Notes:
[1] Assumes WSAP will be in effect at Stage 2.
[2] Population numbers based on projections from SCAG

TABLE 14

UPPER DISTRICT PROJECTED WATER SUPPLY AND DEMAND DURING A NORMAL YEAR (ACRE-FEET)

Year	2010	2015	2020	2025	2030
Imported Water from Metropolitan Demand 1/	ropolitan				
Treated Imported Water for Direct Use	5,700	3,000	3,000	3,000	3,000
Untreated Imported Water for					
Replacement					
/Replenishment	21,000	25,000	16,000	19,000	23,000
Total Demand	26,700	28,000	19,000	22,000	26,000
Supply 2/					
Total Supply	26,700	28,000	19,000	22,000	26,000
Surplus	0	0	0	0	0

^{1/} Includes information from Table 6

^{2/} Assumed no WSAP allocation and Upper District will meet its demands

TABLE 15

UPPER DISTRICT PROJECTED WATER SUPPLY AND DEMAND DURING A SINGLE DRY YEAR (ACRE-FEET)

Year	2010	2015	2020	2025	2030
Imported Water from Metropolitan Demand 1/	ropolitan				
Treated Imported Water for Direct Use	5,700	3,000	3,000	3,000	3,000
Untreated Imported Water for Deplement					
/Replenishment	21,000	25,000	16,000	19,000	23,000
Total Demand	26,700	28,000	19,000	22,000	26,000
Supply 2/ WSAP Allocation	32,000	31.000	45.000	43.000	41.000
Total Supply	32,000	31,000	45,000	43,000	41,000
Surplus	5,300	3,000	26,000	21,000	15,000

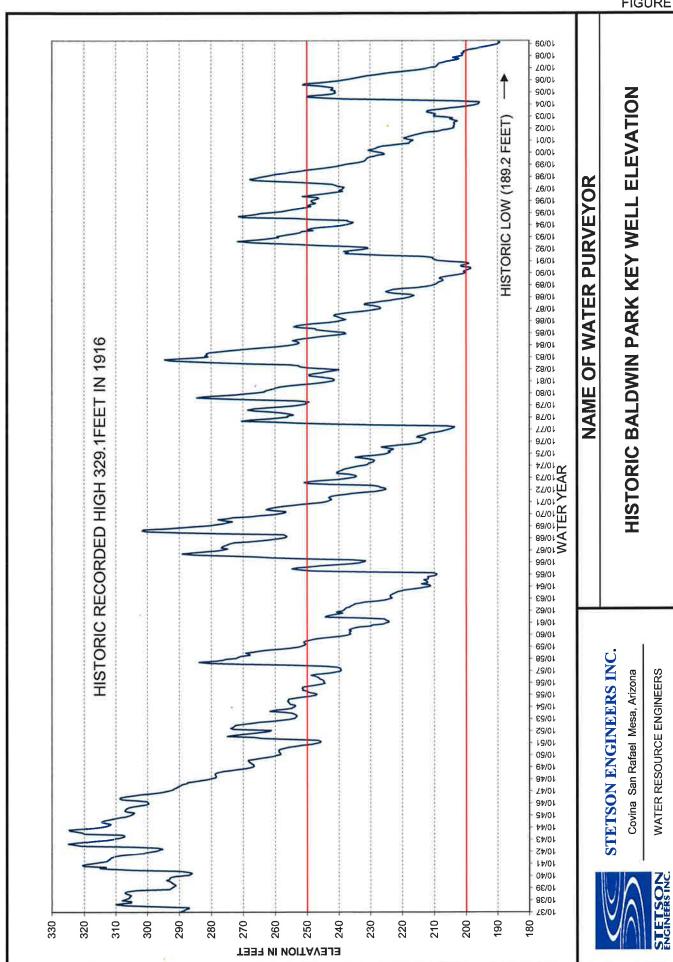
^{1/} Includes information from Table 6

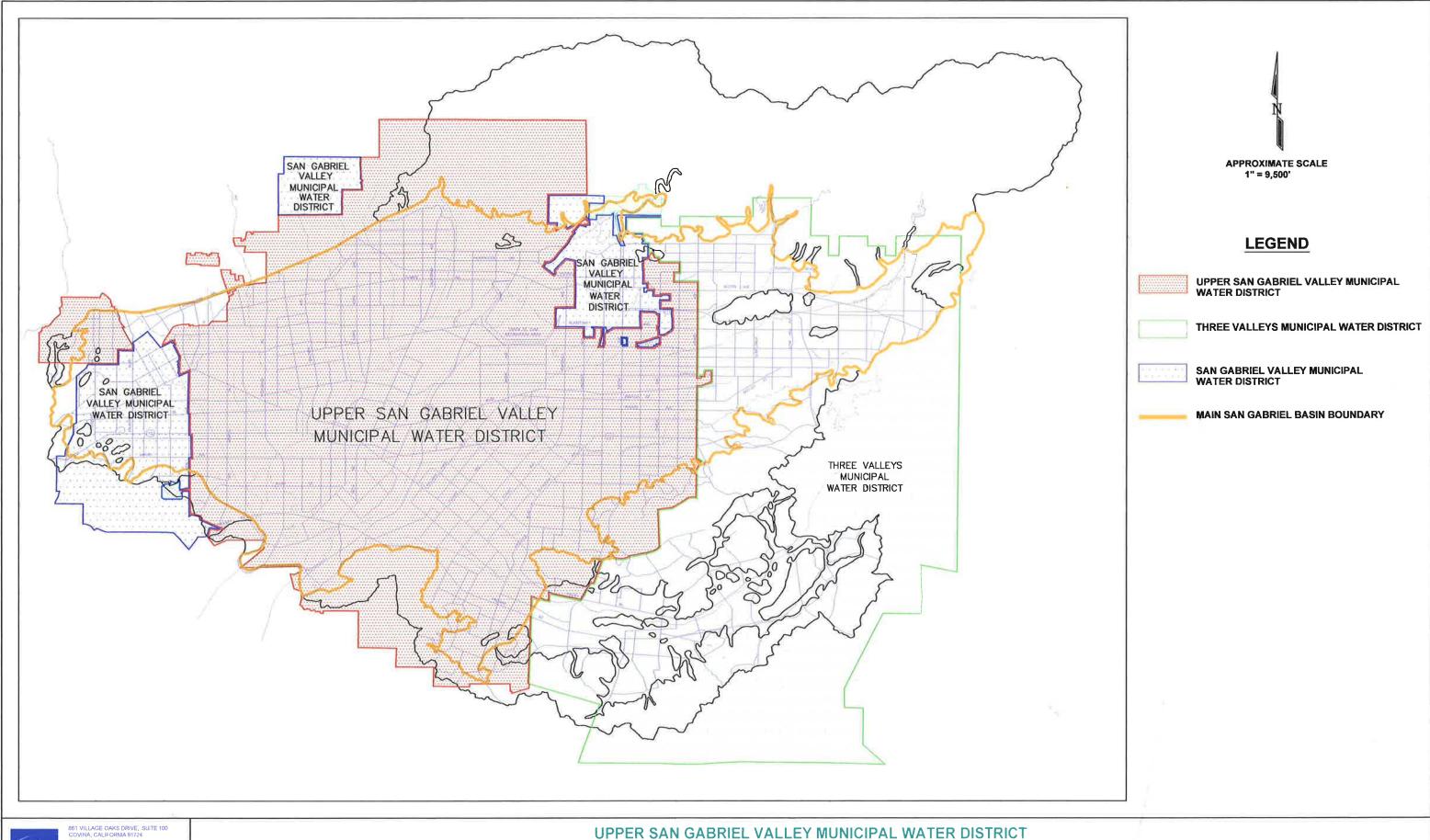
^{2/} Information from Table 13. Assumes Upper District will have a WSAP allocation at Level 2.

TABLE 16

UPPER DISTRICT PROJECTED WATER SUPPLY AND DEMAND

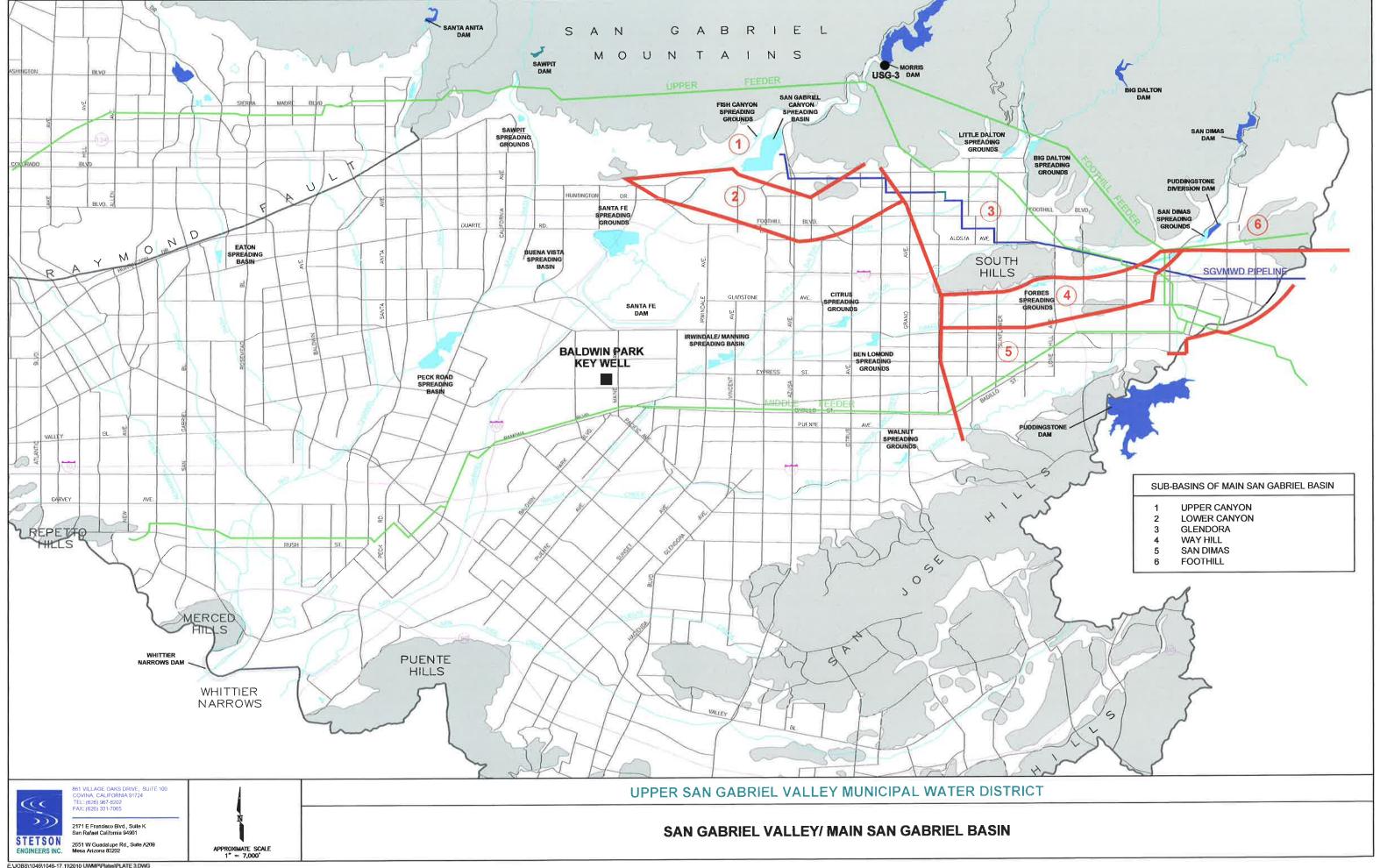
								PRO	DUR	PROJECTED WATER SUPPLY AND DEMAND DURING MULTIPLE DRY YEARS (ACRE-FEET)	ATER SUPPLY MULTIPLE DR (ACRE-FEET)	PPLY/	AND DE YEARS	MAND											
			2010					2015					2020				**	2025					2030		
	Year 1	Year 1 Year 2 Year 3 Year 4 Year 5	Year 3	Year 4	Year 5	Year 1 Year 2		Year 3 Year 4 Year 5	'ear 4 Y		Year 1	Year 2	Year 1 Year 2 Year 3 Year 4 Year 5	ear 4 Y	900	Year 1 Year 2	ear 2 Y	Year 3 Year 4 Year 5	ar 4 Ye		Year 1 Year 2	(ear 2	Year 3 Year 4 Year 5	ear 4 Y	ear 5
Imported Water from Metropolitan Demand 1/																									
Treated Imported Water																								9	3
for Direct Use	5,700	5,700 5,700	5,700	Z A	A A	3,000	3,000	3,000	¥	A A	3,000	3,000	3,000	¥	NA A	3,000	3,000	3,000	AM	NA S	3,000	3,000	3,000	ž	¥
Untreated Imported Water																									
for Replacement	21,000	21,000	21,000	ž	¥	25,000	25,000	25,000	A.	NA	16,000	16,000	16,000	A A	NA AN				NA Z	NA 2	23,000	23,000	23,000	Y.	NA NA
Total Demand	26,700	26,700	26,700	Ş	A	28,000	28,000	28,000	AN	AN AN							22,000 2	22,000					6,000	AN	Ą
Supply 2/ WSAP Allocation Total Summy	32,000	32,000	32,000	A A	A A	31,000	31,000	31,000	A A	₹ ₹	45,000	45,000	45,000	A A	A A	43,000 4	43,000 4	43,000	4 4	4 A	41,000	41,000 4	41,000	4 4	₹
fidding man	200																								
Surplus	5,300	5,300	5,300	ğ	Ä	3,000	3,000	3,000	¥	¥	26,000	26,000	26,000	AN A	NA 2	21,000 2	21,000 2	21,000	AN A	NA AN	15,000	15,000	15,000	¥	¥

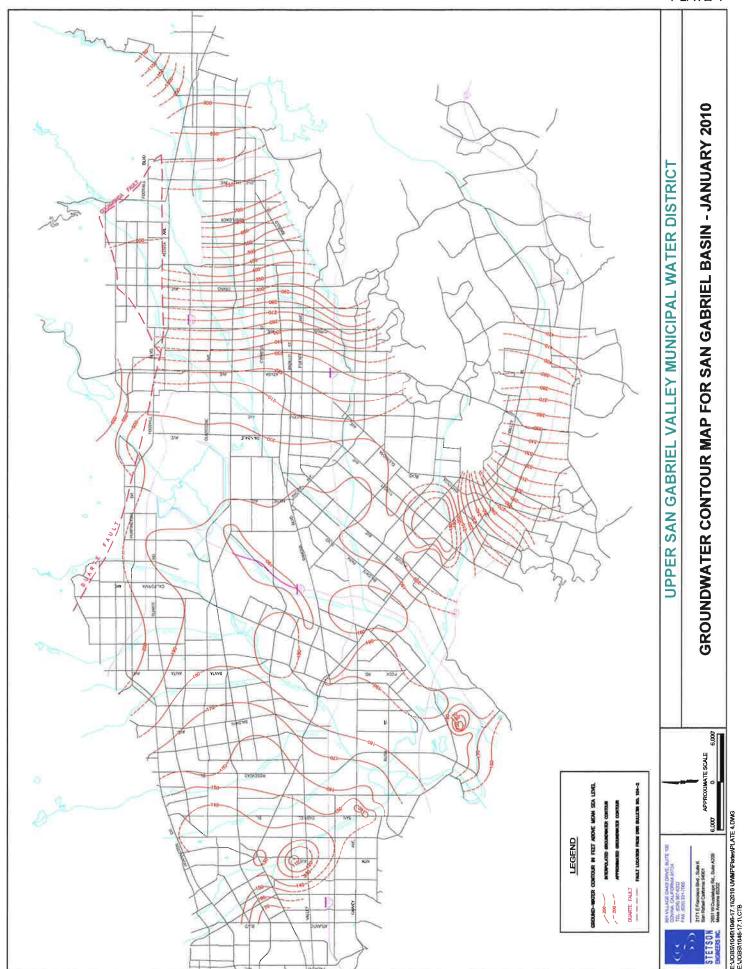


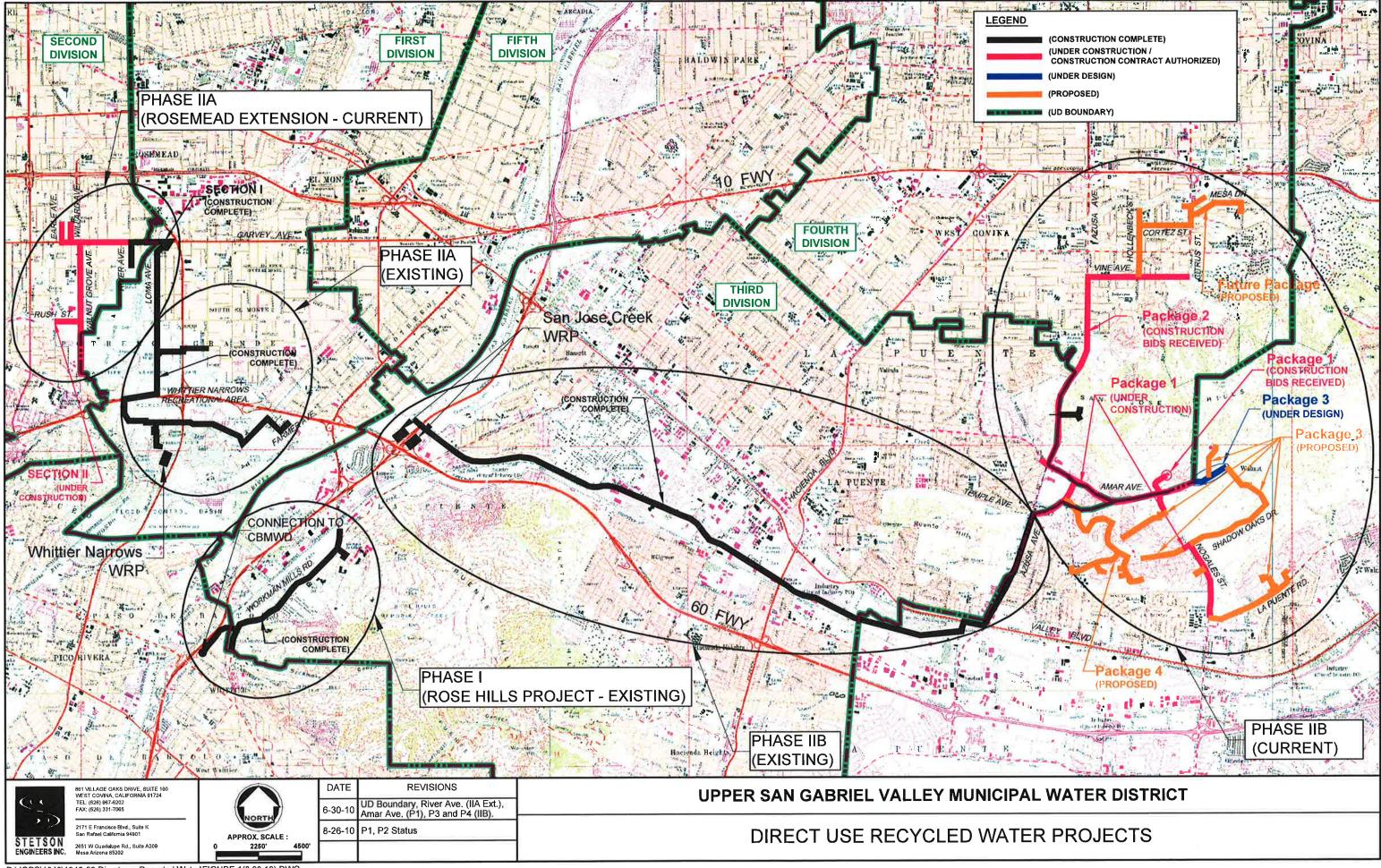


2171 E Francisco Blvd., Suite K San Rafael California 94901

WATER DISTRICT BOUNDARIES







APPENDIX A.1 Urban Water Management Planning Act

Established: <u>AB 797, Klehs, 1983</u> Amended: <u>AB 2661, Klehs, 1990</u>

AB 11X, Filante, 1991

AB 1869, Speier, 1991

AB 892, Frazee, 1993

SB 1017, McCorquodale, 1994

AB 2853, Cortese, 1994

AB 1845, Cortese, 1995

SB 1011, Polanco, 1995

AB 2552, Bates, 2000

SB 553, Kelley, 2000

SB 610, Costa, 2001

AB 901, Daucher, 2001

SB 672, Machado, 2001

SB 1348, Brulte, 2002

SB 1384, Costa, 2002

SB 1518, Torlakson, 2002

AB 105, Wiggins, 2004

SB 318, Alpert, 2004

SB 1087, Florez, 2005

SBX7 7, Steinberg, 2009

CALIFORNIA WATER CODE DIVISION 6 PART 2.6. URBAN WATER MANAGEMENT PLANNING

CHAPTER 1. GENERAL DECLARATION AND POLICY

10610. This part shall be known and may be cited as the "Urban Water Management Planning Act."

10610.2. (a) The Legislature finds and declares all of the following:

- (1) The waters of the state are a limited and renewable resource subject to ever-increasing demands.
- (2) The conservation and efficient use of urban water supplies are of statewide concern; however, the planning for that use and the implementation of those plans can best be accomplished at the local level.
- (3) A long-term, reliable supply of water is essential to protect the productivity of California's businesses and economic climate.

- (4) As part of its long-range planning activities, every urban water supplier should make every effort to ensure the appropriate level of reliability in its water service sufficient to meet the needs of its various categories of customers during normal, dry, and multiple dry water years.
- (5) Public health issues have been raised over a number of contaminants that have been identified in certain local and imported water supplies.
- (6) Implementing effective water management strategies, including groundwater storage projects and recycled water projects, may require specific water quality and salinity targets for meeting groundwater basins water quality objectives and promoting beneficial use of recycled water.
- (7) Water quality regulations are becoming an increasingly important factor in water agencies' selection of raw water sources, treatment alternatives, and modifications to existing treatment facilities.
- (8) Changes in drinking water quality standards may also impact the usefulness of water supplies and may ultimately impact supply reliability.
- (9) The quality of source supplies can have a significant impact on water management strategies and supply reliability.
- (b) This part is intended to provide assistance to water agencies in carrying out their long-term resource planning responsibilities to ensure adequate water supplies to meet existing and future demands for water.
- 10610.4. The Legislature finds and declares that it is the policy of the state as follows:
 - (a) The management of urban water demands and efficient use of water shall be actively pursued to protect both the people of the state and their water resources.
 - (b) The management of urban water demands and efficient use of urban water supplies shall be a guiding criterion in public decisions.
 - (c) Urban water suppliers shall be required to develop water management plans to actively pursue the efficient use of available supplies.

CHAPTER 2. DEFINITIONS

10611. Unless the context otherwise requires, the definitions of this chapter govern the construction of this part.

- 10611.5. "Demand management" means those water conservation measures, programs, and incentives that prevent the waste of water and promote the reasonable and efficient use and reuse of available supplies.
- 10612. "Customer" means a purchaser of water from a water supplier who uses the water for municipal purposes, including residential, commercial, governmental, and industrial uses.
- 10613. "Efficient use" means those management measures that result in the most effective use of water so as to prevent its waste or unreasonable use or unreasonable method of use.
- 10614. "Person" means any individual, firm, association, organization, partnership, business, trust, corporation, company, public agency, or any agency of such an entity.
- 10615. "Plan" means an urban water management plan prepared pursuant to this part. A plan shall describe and evaluate sources of supply, reasonable and practical efficient uses, reclamation and demand management activities. The components of the plan may vary according to an individual community or area's characteristics and its capabilities to efficiently use and conserve water. The plan shall address measures for residential, commercial, governmental, and industrial water demand management as set forth in Article 2 (commencing with Section 10630) of Chapter 3. In addition, a strategy and time schedule for implementation shall be included in the plan.
- 10616. "Public agency" means any board, commission, county, city and county, city, regional agency, district, or other public entity.
- 10616.5. "Recycled water" means the reclamation and reuse of wastewater for beneficial use.
- 10617. "Urban water supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually. An urban water supplier includes a supplier or contractor for water, regardless of the basis of right, which distributes or sells for ultimate resale to customers. This part applies only to water supplied from public water systems subject to Chapter 4 (commencing with Section 116275) of Part 12 of Division 104 of the Health and Safety Code.

CHAPTER 3. URBAN WATER MANAGEMENT PLANS Article 1. General Provisions

10620.

- (a) Every urban water supplier shall prepare and adopt an urban water management plan in the manner set forth in Article 3 (commencing with Section 10640).
- (b) Every person that becomes an urban water supplier shall adopt an urban water management plan within one year after it has become an urban water supplier.
- (c) An urban water supplier indirectly providing water shall not include planning elements in its water management plan as provided in Article 2 (commencing with Section 10630) that would be applicable to urban water suppliers or public agencies directly providing water, or to their customers, without the consent of those suppliers or public agencies.

(d)

- (1) An urban water supplier may satisfy the requirements of this part by participation in areawide, regional, watershed, or basinwide urban water management planning where those plans will reduce preparation costs and contribute to the achievement of conservation and efficient water use.
- (2) Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.
- (e) The urban water supplier may prepare the plan with its own staff, by contract, or in cooperation with other governmental agencies.
- (f) An urban water supplier shall describe in the plan water management tools and options used by that entity that will maximize resources and minimize the need to import water from other regions.

10621.

- (a) Each urban water supplier shall update its plan at least once every five years on or before December 31, in years ending in five and zero.
- (b) Every urban water supplier required to prepare a plan pursuant to this part shall notify any city or county within which the supplier provides water supplies that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan. The urban water supplier may consult with, and obtain comments from, any city or county that receives notice pursuant to this subdivision.
- (c) The amendments to, or changes in, the plan shall be adopted and filed in the manner set forth in Article 3 (commencing with Section 10640).

Article 2. Contents of Plans

10630. It is the intention of the Legislature, in enacting this part, to permit levels of water management planning commensurate with the numbers of customers served and the volume of water supplied.

10631. A plan shall be adopted in accordance with this chapter and shall do all of the following:

- (a) Describe the service area of the supplier, including current and projected population, climate, and other demographic factors affecting the supplier's water management planning. The projected population estimates shall be based upon data from the state, regional, or local service agency population projections within the service area of the urban water supplier and shall be in five-year increments to 20 years or as far as data is available.
- (b) Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a). If groundwater is identified as an existing or planned source of water available to the supplier, all of the following information shall be included in the plan:
 - (1) A copy of any groundwater management plan adopted by the urban water supplier, including plans adopted pursuant to Part 2.75 (commencing with Section 10750), or any other specific authorization for groundwater management.
 - (2) A description of any groundwater basin or basins from which the urban water supplier pumps groundwater. For those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of groundwater the urban water supplier has the legal right to pump under the order or decree.

For basins that have not been adjudicated, information as to whether the department has identified the basin or basins as overdrafted or has projected that the basin will become overdrafted if present management conditions continue, in the most current official departmental bulletin that characterizes the condition of the groundwater basin, and a detailed description of the efforts being undertaken by the urban water supplier to eliminate the long-term overdraft condition.

(3) A detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water supplier for the

past five years. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

- (4) A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the urban water supplier. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.
- (c) Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage, to the extent practicable, and provide data for each of the following:
 - (1) An average water year.
 - (2) A single dry water year.
 - (3) Multiple dry water years.

For any water source that may not be available at a consistent level of use, given specific legal, environmental, water quality, or climatic factors, describe plans to supplement or replace that source with alternative sources or water demand management measures, to the extent practicable.

- (d) Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.
- (e)
- (1) Quantify, to the extent records are available, past and current water use, over the same five-year increments described in subdivision (a), and projected water use, identifying the uses among water use sectors including, but not necessarily limited to, all of the following uses:
 - (A) Single-family residential.
 - (B) Multifamily.
 - (C) Commercial.
 - (D) Industrial.
 - (E) Institutional and governmental.
 - (F) Landscape.
 - (G) Sales to other agencies.
 - (H) Saline water intrusion barriers, groundwater recharge, or conjunctive use, or any combination thereof.
 - (I) Agricultural.

- (2) The water use projections shall be in the same five-year increments described in subdivision (a).
- (f) Provide a description of the supplier's water demand management measures. This description shall include all of the following:
 - (1) A description of each water demand management measure that is currently being implemented, or scheduled for implementation, including the steps necessary to implement any proposed measures, including, but not limited to, all of the following:
 - (A) Water survey programs for single-family residential and multifamily residential customers.
 - (B) Residential plumbing retrofit.
 - (C) System water audits, leak detection, and repair.
 - (D) Metering with commodity rates for all new connections and retrofit of existing connections.
 - (E) Large landscape conservation programs and incentives.
 - (F) High-efficiency washing machine rebate programs.
 - (G) Public information programs.
 - (H) School education programs.
 - (I) Conservation programs for commercial, industrial, and institutional accounts.
 - (J) Wholesale agency programs.
 - (K) Conservation pricing.
 - (L) Water conservation coordinator.
 - (M) Water waste prohibition.
 - (N) Residential ultra-low-flush toilet replacement programs.
 - (2) A schedule of implementation for all water demand management measures proposed or described in the plan.

- (3) A description of the methods, if any, that the supplier will use to evaluate the effectiveness of water demand management measures implemented or described under the plan.
- (4) An estimate, if available, of existing conservation savings on water use within the supplier's service area, and the effect of the savings on the supplier's ability to further reduce demand.
- (g) An evaluation of each water demand management measure listed in paragraph (1) of subdivision (f) that is not currently being implemented or scheduled for implementation. In the course of the evaluation, first consideration shall be given to water demand management measures, or combination of measures, that offer lower incremental costs than expanded or additional water supplies. This evaluation shall do all of the following:
 - (1) Take into account economic and noneconomic factors, including environmental, social, health, customer impact, and technological factors.
 - (2) Include a cost-benefit analysis, identifying total benefits and total costs.
 - (3) Include a description of funding available to implement any planned water supply project that would provide water at a higher unit cost.
 - (4) Include a description of the water supplier's legal authority to implement the measure and efforts to work with other relevant agencies to ensure the implementation of the measure and to share the cost of implementation.
- (h) Include a description of all water supply projects and water supply programs that may be undertaken by the urban water supplier to meet the total projected water use as established pursuant to subdivision (a) of Section 10635. The urban water supplier shall include a detailed description of expected future projects and programs, other than the demand management programs identified pursuant to paragraph (1) of subdivision (f), that the urban water supplier may implement to increase the amount of the water supply available to the urban water supplier in average, single-dry, and multiple-dry water years. The description shall identify specific projects and include a description of the increase in water supply that is expected to be available from each project. The description shall include an estimate with regard to the implementation timeline for each project or program.

- (i) Describe the opportunities for development of desalinated water, including, but not limited to, ocean water, brackish water, and groundwater, as a long-term supply.
- (j) Urban water suppliers that are members of the California Urban Water Conservation Council and submit annual reports to that council in accordance with the "Memorandum of Understanding Regarding Urban Water Conservation in California," dated September 1991, may submit the annual reports identifying water demand management measures currently being implemented, or scheduled for implementation, to satisfy the requirements of subdivisions (f) and (g).
- (k) Urban water suppliers that rely upon a wholesale agency for a source of water, shall provide the wholesale agency with water use projections from that agency for that source of water in five-year increments to 20 years or as far as data is available. The wholesale agency shall provide information to the urban water supplier for inclusion in the urban water supplier's plan that identifies and quantifies, to the extent practicable, the existing and planned sources of water as required by subdivision (b), available from the wholesale agency to the urban water supplier over the same five-year increments, and during various water-year types in accordance with subdivision (c). An urban water supplier may rely upon water supply information provided by the wholesale agency in fulfilling the plan informational requirements of subdivisions (b) and (c), including, but not limited to, ocean water, brackish water, and groundwater, as a long-term supply.
- 10631.5. The department shall take into consideration whether the urban water supplier is implementing or scheduled for implementation, the water demand management activities that the urban water supplier identified in its urban water management plan, pursuant to Section 10631, in evaluating applications for grants and loans made available pursuant to Section 79163. The urban water supplier may submit to the department copies of its annual reports and other relevant documents to assist the department in determining whether the urban water supplier is implementing or scheduling the implementation of water demand management activities.
- 10632. The plan shall provide an urban water shortage contingency analysis which includes each of the following elements which are within the authority of the urban water supplier:
 - (a) Stages of action to be undertaken by the urban water supplier in response to water supply shortages, including up to a 50 percent reduction in water supply, and an outline of specific water supply conditions which are applicable to each stage.

- (b) An estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency's water supply.
- (c) Actions to be undertaken by the urban water supplier to prepare for, and implement during, a catastrophic interruption of water supplies including, but not limited to, a regional power outage, an earthquake, or other disaster.
- (d) Additional, mandatory prohibitions against specific water use practices during water shortages, including, but not limited to, prohibiting the use of potable water for street cleaning.
- (e) Consumption reduction methods in the most restrictive stages. Each urban water supplier may use any type of consumption reduction methods in its water shortage contingency analysis that would reduce water use, are appropriate for its area, and have the ability to achieve a water use reduction consistent with up to a 50 percent reduction in water supply.
- (f) Penalties or charges for excessive use, where applicable.
- (g) An analysis of the impacts of each of the actions and conditions described in subdivisions (a) to (f), inclusive, on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts, such as the development of reserves and rate adjustments.
- (h) A draft water shortage contingency resolution or ordinance.
- (i) A mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis.

10633. The plan shall provide, to the extent available, information on recycled water and its potential for use as a water source in the service area of the urban water supplier. The preparation of the plan shall be coordinated with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area, and shall include all of the following:

- (a) A description of the wastewater collection and treatment systems in the supplier's service area, including a quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.
- (b) A description of the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.

- (c) A description of the recycled water currently being used in the supplier's service area, including, but not limited to, the type, place, and quantity of use.
- (d) A description and quantification of the potential uses of recycled water, including, but not limited to, agricultural irrigation, landscape irrigation, wildlife habitat enhancement, wetlands, industrial reuse, groundwater recharge, and other appropriate uses, and a determination with regard to the technical and economic feasibility of serving those uses.
- (e) The projected use of recycled water within the supplier's service area at the end of 5, 10, 15, and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected pursuant to this subdivision.
- (f) A description of actions, including financial incentives, which may be taken to encourage the use of recycled water, and the projected results of these actions in terms of acre-feet of recycled water used per year.
- (g) A plan for optimizing the use of recycled water in the supplier's service area, including actions to facilitate the installation of dual distribution systems, to promote recirculating uses, to facilitate the increased use of treated wastewater that meets recycled water standards, and to overcome any obstacles to achieving that increased use.

10634. The plan shall include information, to the extent practicable, relating to the quality of existing sources of water available to the supplier over the same five-year increments as described in subdivision (a) of Section 10631, and the manner in which water quality affects water management strategies and supply reliability.

Article 2.5 Water Service Reliability

10635.

(a) Every urban water supplier shall include, as part of its urban water management plan, an assessment of the reliability of its water service to its customers during normal, dry, and multiple dry water years. This water supply and demand assessment shall compare the total water supply sources available to the water supplier with the total projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry water year, and multiple dry water years. The water service reliability assessment shall be based upon the information compiled

- pursuant to Section 10631, including available data from state, regional, or local agency population projections within the service area of the urban water supplier.
- (b) The urban water supplier shall provide that portion of its urban water management plan prepared pursuant to this article to any city or county within which it provides water supplies no later than 60 days after the submission of its urban water management plan.
- (c) Nothing in this article is intended to create a right or entitlement to water service or any specific level of water service.
- (d) Nothing in this article is intended to change existing law concerning an urban water supplier's obligation to provide water service to its existing customers or to any potential future customers.

Articl 3. Adoption and Implementation of Plans

10640. Every urban water supplier required to prepare a plan pursuant to this part shall prepare its plan pursuant to Article 2 (commencing with Section 10630).

The supplier shall likewise periodically review the plan as required by Section 10621, and any amendments or changes required as a result of that review shall be adopted pursuant to this article.

10641. An urban water supplier required to prepare a plan may consult with, and obtain comments from, any public agency or state agency or any person who has special expertise with respect to water demand management methods and techniques.

10642. Each urban water supplier shall encourage the active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan. Prior to adopting a plan, the urban water supplier shall make the plan available for public inspection and shall hold a public hearing thereon. Prior to the hearing, notice of the time and place of hearing shall be published within the jurisdiction of the publicly owned water supplier pursuant to Section 6066 of the Government Code. The urban water supplier shall provide notice of the time and place of hearing to any city or county within which the supplier provides water supplies. A privately owned water supplier shall provide an equivalent notice within its service area. After the hearing, the plan shall be adopted as prepared or as modified after the hearing.

10643. An urban water supplier shall implement its plan adopted pursuant to this chapter in accordance with the schedule set forth in its plan.

10644.

- (a) An urban water supplier shall file with the department and any city or county within which the supplier provides water supplies a copy of its plan no later than 30 days after adoption. Copies of amendments or changes to the plans shall be filed with the department and any city or county within which the supplier provides water supplies within 30 days after adoption.
- (b) The department shall prepare and submit to the Legislature, on or before December 31, in the years ending in six and one, a report summarizing the status of the plans adopted pursuant to this part. The report prepared by the department shall identify the outstanding elements of the individual plans. The department shall provide a copy of the report to each urban water supplier that has filed its plan with the department. The department shall also prepare reports and provide data for any legislative hearings designed to consider the effectiveness of plans submitted pursuant to this part.

10645. Not later than 30 days after filing a copy of its plan with the department, the urban water supplier and the department shall make the plan available for public review during normal business hours.

CHAPTER 4. MISCELLANEOUS PROVISIONS

10650. Any actions or proceedings to attack, review, set aside, void, or annul the acts or decisions of an urban water supplier on the grounds of noncompliance with this part shall be commenced as follows:

- (a) An action or proceeding alleging failure to adopt a plan shall be commenced within 18 months after that adoption is required by this part.
- (b) Any action or proceeding alleging that a plan, or action taken pursuant to the plan, does not comply with this part shall be commenced within 90 days after filing of the plan or amendment thereto pursuant to Section 10644 or the taking of that action.
- 10651. In any action or proceeding to attack, review, set aside, void, or annul a plan, or an action taken pursuant to the plan by an urban water supplier on the grounds of noncompliance with this part, the inquiry shall extend only to whether there was a prejudicial abuse of discretion. Abuse of discretion is established if the supplier has not proceeded in a manner required by law or if the action by the water supplier is not supported by substantial evidence.

10652. The California Environmental Quality Act (Division 13 (commencing with Section 21000) of the Public Resources Code) does not apply to the preparation and adoption of plans pursuant to this part or to the implementation of actions taken pursuant to Section 10632. Nothing in this part shall be interpreted as exempting from the California Environmental Quality Act any project that would significantly affect water

supplies for fish and wildlife, or any project for implementation of the plan, other than projects implementing Section 10632, or any project for expanded or additional water supplies.

10653. The adoption of a plan shall satisfy any requirements of state law, regulation, or order, including those of the State Water Resources Control Board and the Public Utilities Commission, for the preparation of water management plans or conservation plans; provided, that if the State Water Resources Control Board or the Public Utilities Commission requires additional information concerning water conservation to implement its existing authority, nothing in this part shall be deemed to limit the board or the commission in obtaining that information. The requirements of this part shall be satisfied by any urban water demand management plan prepared to meet federal laws or regulations after the effective date of this part, and which substantially meets the requirements of this part, or by any existing urban water management plan which includes the contents of a plan required under this part.

10654. An urban water supplier may recover in its rates the costs incurred in preparing its plan and implementing the reasonable water conservation measures included in the plan. Any best water management practice that is included in the plan that is identified in the "Memorandum of Understanding Regarding Urban Water Conservation in California" is deemed to be reasonable for the purposes of this section.

10655. If any provision of this part or the application thereof to any person or circumstances is held invalid, that invalidity shall not affect other provisions or applications of this part which can be given effect without the invalid provision or application thereof, and to this end the provisions of this part are severable.

10656. An urban water supplier that does not prepare, adopt, and submit its urban water management plan to the department in accordance with this part, is ineligible to receive funding pursuant to Division 24 (commencing with Section 78500) or Division 26 (commencing with Section 79000), or receive drought assistance from the state until the urban water management plan is submitted pursuant to this article.

10657.

- (a) The department shall take into consideration whether the urban water supplier has submitted an updated urban water management plan that is consistent with Section 10631, as amended by the act that adds this section, in determining whether the urban water supplier is eligible for funds made available pursuant to any program administered by the department.
- (b) This section shall remain in effect only until January 1, 2006, and as of that date is repealed, unless a later enacted statute, that is enacted before January 1, 2006, deletes or extends that date.

APPENDIX A.2 Senate Bill 7

Senate Bill No. 7

CHAPTER 4

An act to amend and repeal Section 10631.5 of, to add Part 2.55 (commencing with Section 10608) to Division 6 of, and to repeal and add Part 2.8 (commencing with Section 10800) of Division 6 of, the Water Code, relating to water.

[Approved by Governor November 10, 2009. Filed with Secretary of State November 10, 2009.]

LEGISLATIVE COUNSEL'S DIGEST

SB 7, Steinberg. Water conservation.

(1) Existing law requires the Department of Water Resources to convene an independent technical panel to provide information to the department and the Legislature on new demand management measures, technologies, and approaches. "Demand management measures" means those water conservation measures, programs, and incentives that prevent the waste of water and promote the reasonable and efficient use and reuse of available

supplies.

This bill would require the state to achieve a 20% reduction in urban per capita water use in California by December 31, 2020. The state would be required to make incremental progress towards this goal by reducing per capita water use by at least 10% on or before December 31, 2015. The bill would require each urban retail water supplier to develop urban water use targets and an interim urban water use target, in accordance with specified requirements. The bill would require agricultural water suppliers to implement efficient water management practices. The bill would require the department, in consultation with other state agencies, to develop a single standardized water use reporting form. The bill, with certain exceptions, would provide that urban retail water suppliers, on and after July 1, 2016, and agricultural water suppliers, on and after July 1, 2013, are not eligible for state water grants or loans unless they comply with the water conservation requirements established by the bill. The bill would repeal, on July 1, 2016, an existing requirement that conditions eligibility for certain water management grants or loans to an urban water supplier on the implementation of certain water demand management measures.

(2) Existing law, until January 1, 1993, and thereafter only as specified, requires certain agricultural water suppliers to prepare and adopt water

management plans.

This bill would revise existing law relating to agricultural water management planning to require agricultural water suppliers to prepare and adopt agricultural water management plans with specified components on or before December 31, 2012, and update those plans on or before December

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31, 2015, and on or before December 31 every 5 years thereafter. An agricultural water supplier that becomes an agricultural water supplier after December 31, 2012, would be required to prepare and adopt an agricultural water management plan within one year after becoming an agricultural water supplier. The agricultural water supplier would be required to notify each city or county within which the supplier provides water supplies with regard to the preparation or review of the plan. The bill would require the agricultural water supplier to submit copies of the plan to the department and other specified entities. The bill would provide that an agricultural water supplier is not eligible for state water grants or loans unless the supplier complies with the water management planning requirements established by the bill.

(3) The bill would take effect only if SB 1 and SB 6 of the 2009–10 7th Extraordinary Session of the Legislature are enacted and become effective.

The people of the State of California do enact as follows:

SECTION 1. Part 2.55 (commencing with Section 10608) is added to Division 6 of the Water Code, to read:

PART 2.55. SUSTAINABLE WATER USE AND DEMAND REDUCTION

Chapter 1. General Declarations and Policy

10608. The Legislature finds and declares all of the following:

- (a) Water is a public resource that the California Constitution protects against waste and unreasonable use.
- (b) Growing population, climate change, and the need to protect and grow California's economy while protecting and restoring our fish and wildlife habitats make it essential that the state manage its water resources as efficiently as possible.
- (c) Diverse regional water supply portfolios will increase water supply reliability and reduce dependence on the Delta.
- (d) Reduced water use through conservation provides significant energy and environmental benefits, and can help protect water quality, improve streamflows, and reduce greenhouse gas emissions.
- (e) The success of state and local water conservation programs to increase efficiency of water use is best determined on the basis of measurable outcomes related to water use or efficiency.
- (f) Improvements in technology and management practices offer the potential for increasing water efficiency in California over time, providing an essential water management tool to meet the need for water for urban, agricultural, and environmental uses.
- (g) The Governor has called for a 20 percent per capita reduction in urban water use statewide by 2020.

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- (h) The factors used to formulate water use efficiency targets can vary significantly from location to location based on factors including weather, patterns of urban and suburban development, and past efforts to enhance water use efficiency.
- (i) Per capita water use is a valid measure of a water provider's efforts to reduce urban water use within its service area. However, per capita water use is less useful for measuring relative water use efficiency between different water providers. Differences in weather, historical patterns of urban and suburban development, and density of housing in a particular location need to be considered when assessing per capita water use as a measure of efficiency.

10608.4. It is the intent of the Legislature, by the enactment of this part, to do all of the following:

- (a) Require all water suppliers to increase the efficiency of use of this essential resource.
- (b) Establish a framework to meet the state targets for urban water conservation identified in this part and called for by the Governor.
 - (c) Measure increased efficiency of urban water use on a per capita basis.
- (d) Establish a method or methods for urban retail water suppliers to determine targets for achieving increased water use efficiency by the year 2020, in accordance with the Governor's goal of a 20-percent reduction.
- (e) Establish consistent water use efficiency planning and implementation standards for urban water suppliers and agricultural water suppliers.
- (f) Promote urban water conservation standards that are consistent with the California Urban Water Conservation Council's adopted best management practices and the requirements for demand management in Section 10631.
- (g) Establish standards that recognize and provide credit to water suppliers that made substantial capital investments in urban water conservation since the drought of the early 1990s.
- (h) Recognize and account for the investment of urban retail water suppliers in providing recycled water for beneficial uses.
- (i) Require implementation of specified efficient water management practices for agricultural water suppliers.
- (j) Support the economic productivity of California's agricultural, commercial, and industrial sectors.
 - (k) Advance regional water resources management.
- 10608.8. (a) (1) Water use efficiency measures adopted and implemented pursuant to this part or Part 2.8 (commencing with Section 10800) are water conservation measures subject to the protections provided under Section 1011.
- (2) Because an urban agency is not required to meet its urban water use target until 2020 pursuant to subdivision (b) of Section 10608.24, an urban retail water supplier's failure to meet those targets shall not establish a violation of law for purposes of any state administrative or judicial proceeding prior to January 1, 2021. Nothing in this paragraph limits the use of data reported to the department or the board in litigation or an

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administrative proceeding. This paragraph shall become inoperative on January 1, 2021.

(3) To the extent feasible, the department and the board shall provide for the use of water conservation reports required under this part to meet the requirements of Section 1011 for water conservation reporting.

(b) This part does not limit or otherwise affect the application of Chapter 3.5 (commencing with Section 11340), Chapter 4 (commencing with Section 11370), Chapter 4.5 (commencing with Section 11400), and Chapter 5 (commencing with Section 11500) of Part 1 of Division 3 of Title 2 of the Government Code.

- (c) This part does not require a reduction in the total water used in the agricultural or urban sectors, because other factors, including, but not limited to, changes in agricultural economics or population growth may have greater effects on water use. This part does not limit the economic productivity of California's agricultural, commercial, or industrial sectors.
- (d) The requirements of this part do not apply to an agricultural water supplier that is a party to the Quantification Settlement Agreement, as defined in subdivision (a) of Section 1 of Chapter 617 of the Statutes of 2002, during the period within which the Quantification Settlement Agreement remains in effect. After the expiration of the Quantification Settlement Agreement, to the extent conservation water projects implemented as part of the Quantification Settlement Agreement remain in effect, the conserved water created as part of those projects shall be credited against the obligations of the agricultural water supplier pursuant to this part.

Chapter 2. Definitions

10608.12. Unless the context otherwise requires, the following definitions govern the construction of this part:

- (a) "Agricultural water supplier" means a water supplier, either publicly or privately owned, providing water to 10,000 or more irrigated acres, excluding recycled water. "Agricultural water supplier" includes a supplier or contractor for water, regardless of the basis of right, that distributes or sells water for ultimate resale to customers. "Agricultural water supplier" does not include the department.
 - (b) "Base daily per capita water use" means any of the following:
- (1) The urban retail water supplier's estimate of its average gross water use, reported in gallons per capita per day and calculated over a continuous 10-year period ending no earlier than December 31, 2004, and no later than December 31, 2010.
- (2) For an urban retail water supplier that meets at least 10 percent of its 2008 measured retail water demand through recycled water that is delivered within the service area of an urban retail water supplier or its urban wholesale water supplier, the urban retail water supplier may extend the calculation described in paragraph (1) up to an additional five years to a maximum of

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a continuous 15-year period ending no earlier than December 31, 2004, and no later than December 31, 2010.

- (3) For the purposes of Section 10608.22, the urban retail water supplier's estimate of its average gross water use, reported in gallons per capita per day and calculated over a continuous five-year period ending no earlier than December 31, 2007, and no later than December 31, 2010.
- (c) "Baseline commercial, industrial, and institutional water use" means an urban retail water supplier's base daily per capita water use for commercial, industrial, and institutional users.
- (d) "Commercial water user" means a water user that provides or distributes a product or service.
- (e) "Compliance daily per capita water use" means the gross water use during the final year of the reporting period, reported in gallons per capita per day.
- (f) "Disadvantaged community" means a community with an annual median household income that is less than 80 percent of the statewide annual median household income.
- (g) "Gross water use" means the total volume of water, whether treated or untreated, entering the distribution system of an urban retail water supplier, excluding all of the following:
- (1) Recycled water that is delivered within the service area of an urban retail water supplier or its urban wholesale water supplier.
- (2) The net volume of water that the urban retail water supplier places into long-term storage.
- (3) The volume of water the urban retail water supplier conveys for use by another urban water supplier.
- (4) The volume of water delivered for agricultural use, except as otherwise provided in subdivision (f) of Section 10608.24.
- (h) "Industrial water user" means a water user that is primarily a manufacturer or processor of materials as defined by the North American Industry Classification System code sectors 31 to 33, inclusive, or an entity that is a water user primarily engaged in research and development.
- (i) "Institutional water user" means a water user dedicated to public service. This type of user includes, among other users, higher education institutions, schools, courts, churches, hospitals, government facilities, and nonprofit research institutions.
- (j) "Interim urban water use target" means the midpoint between the urban retail water supplier's base daily per capita water use and the urban retail water supplier's urban water use target for 2020.
- (k) "Locally cost effective" means that the present value of the local benefits of implementing an agricultural efficiency water management practice is greater than or equal to the present value of the local cost of implementing that measure.
- (1) "Process water" means water used for producing a product or product content or water used for research and development, including, but not limited to, continuous manufacturing processes, water used for testing and maintaining equipment used in producing a product or product content, and

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water used in combined heat and power facilities used in producing a product or product content. Process water does not mean incidental water uses not related to the production of a product or product content, including, but not limited to, water used for restrooms, landscaping, air conditioning, heating, kitchens, and laundry.

- (m) "Recycled water" means recycled water, as defined in subdivision (n) of Section 13050, that is used to offset potable demand, including recycled water supplied for direct use and indirect potable reuse, that meets the following requirements, where applicable:
- (1) For groundwater recharge, including recharge through spreading basins, water supplies that are all of the following:

(A) Metered.

(B) Developed through planned investment by the urban water supplier or a wastewater treatment agency.

(C) Treated to a minimum tertiary level.

- (D) Delivered within the service area of an urban retail water supplier or its urban wholesale water supplier that helps an urban retail water supplier meet its urban water use target.
- (2) For reservoir augmentation, water supplies that meet the criteria of paragraph (1) and are conveyed through a distribution system constructed specifically for recycled water.
- (n) "Regional water resources management" means sources of supply resulting from watershed-based planning for sustainable local water reliability or any of the following alternative sources of water:
 - (1) The capture and reuse of stormwater or rainwater.

(2) The use of recycled water.

- (3) The desalination of brackish groundwater.
- (4) The conjunctive use of surface water and groundwater in a manner that is consistent with the safe yield of the groundwater basin.
- (o) "Reporting period" means the years for which an urban retail water supplier reports compliance with the urban water use targets.
- (p) "Urban retail water supplier" means a water supplier, either publicly or privately owned, that directly provides potable municipal water to more than 3,000 end users or that supplies more than 3,000 acre-feet of potable water annually at retail for municipal purposes.
- (q) "Urban water use target" means the urban retail water supplier's targeted future daily per capita water use.
- (r) "Urban wholesale water supplier," means a water supplier, either publicly or privately owned, that provides more than 3,000 acre-feet of water annually at wholesale for potable municipal purposes.

CHAPTER 3. URBAN RETAIL WATER SUPPLIERS

10608.16. (a) The state shall achieve a 20-percent reduction in urban per capita water use in California on or before December 31, 2020.

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(b) The state shall make incremental progress towards the state target specified in subdivision (a) by reducing urban per capita water use by at least 10 percent on or before December 31, 2015.

- 10608.20. (a) (1) Each urban retail water supplier shall develop urban water use targets and an interim urban water use target by July 1, 2011. Urban retail water suppliers may elect to determine and report progress toward achieving these targets on an individual or regional basis, as provided in subdivision (a) of Section 10608.28, and may determine the targets on a fiscal year or calendar year basis.
- (2) It is the intent of the Legislature that the urban water use targets described in subdivision (a) cumulatively result in a 20-percent reduction from the baseline daily per capita water use by December 31, 2020.
- (b) An urban retail water supplier shall adopt one of the following methods for determining its urban water use target pursuant to subdivision (a):
- (1) Eighty percent of the urban retail water supplier's baseline per capita daily water use.
- (2) The per capita daily water use that is estimated using the sum of the following performance standards:
- (A) For indoor residential water use, 55 gallons per capita daily water use as a provisional standard. Upon completion of the department's 2016 report to the Legislature pursuant to Section 10608.42, this standard may be adjusted by the Legislature by statute.
- (B) For landscape irrigated through dedicated or residential meters or connections, water efficiency equivalent to the standards of the Model Water Efficient Landscape Ordinance set forth in Chapter 2.7 (commencing with Section 490) of Division 2 of Title 23 of the California Code of Regulations, as in effect the later of the year of the landscape's installation or 1992. An urban retail water supplier using the approach specified in this subparagraph shall use satellite imagery, site visits, or other best available technology to develop an accurate estimate of landscaped areas.
- (C) For commercial, industrial, and institutional uses, a 10-percent reduction in water use from the baseline commercial, industrial, and institutional water use by 2020.
- (3) Ninety-five percent of the applicable state hydrologic region target, as set forth in the state's draft 20x2020 Water Conservation Plan (dated April 30, 2009). If the service area of an urban water supplier includes more than one hydrologic region, the supplier shall apportion its service area to each region based on population or area.
- (4) A method that shall be identified and developed by the department, through a public process, and reported to the Legislature no later than December 31, 2010. The method developed by the department shall identify per capita targets that cumulatively result in a statewide 20-percent reduction in urban daily per capita water use by December 31, 2020. In developing urban daily per capita water use targets, the department shall do all of the following:
 - (A) Consider climatic differences within the state.

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- (B) Consider population density differences within the state.
- (C) Provide flexibility to communities and regions in meeting the targets.
- (D) Consider different levels of per capita water use according to plant water needs in different regions.
- (E) Consider different levels of commercial, industrial, and institutional water use in different regions of the state.
- (F) Avoid placing an undue hardship on communities that have implemented conservation measures or taken actions to keep per capita water use low.
- (c) If the department adopts a regulation pursuant to paragraph (4) of subdivision (b) that results in a requirement that an urban retail water supplier achieve a reduction in daily per capita water use that is greater than 20 percent by December 31, 2020, an urban retail water supplier that adopted the method described in paragraph (4) of subdivision (b) may limit its urban water use target to a reduction of not more than 20 percent by December 31, 2020, by adopting the method described in paragraph (1) of subdivision (b).
- (d) The department shall update the method described in paragraph (4) of subdivision (b) and report to the Legislature by December 31, 2014. An urban retail water supplier that adopted the method described in paragraph (4) of subdivision (b) may adopt a new urban daily per capita water use target pursuant to this updated method.
- (e) An urban retail water supplier shall include in its urban water management plan required pursuant to Part 2.6 (commencing with Section 10610) due in 2010 the baseline daily per capita water use, urban water use target, interim urban water use target, and compliance daily per capita water use, along with the bases for determining those estimates, including references to supporting data.
- (f) When calculating per capita values for the purposes of this chapter, an urban retail water supplier shall determine population using federal, state, and local population reports and projections.
- (g) An urban retail water supplier may update its 2020 urban water use target in its 2015 urban water management plan required pursuant to Part 2.6 (commencing with Section 10610).
- (h) (1) The department, through a public process and in consultation with the California Urban Water Conservation Council, shall develop technical methodologies and criteria for the consistent implementation of this part, including, but not limited to, both of the following:
- (A) Methodologies for calculating base daily per capita water use, baseline commercial, industrial, and institutional water use, compliance daily per capita water use, gross water use, service area population, indoor residential water use, and landscaped area water use.
- (B) Criteria for adjustments pursuant to subdivisions (d) and (e) of Section 10608.24.
- (2) The department shall post the methodologies and criteria developed pursuant to this subdivision on its Internet Web site, and make written copies

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available, by October 1, 2010. An urban retail water supplier shall use the methods developed by the department in compliance with this part.

- (i) (1) The department shall adopt regulations for implementation of the provisions relating to process water in accordance with subdivision (*I*) of Section 10608.12, subdivision (e) of Section 10608.24, and subdivision (d) of Section 10608.26.
- (2) The initial adoption of a regulation authorized by this subdivision is deemed to address an emergency, for purposes of Sections 11346.1 and 11349.6 of the Government Code, and the department is hereby exempted for that purpose from the requirements of subdivision (b) of Section 11346.1 of the Government Code. After the initial adoption of an emergency regulation pursuant to this subdivision, the department shall not request approval from the Office of Administrative Law to readopt the regulation as an emergency regulation pursuant to Section 11346.1 of the Government Code.
- (j) An urban retail water supplier shall be granted an extension to July 1, 2011, for adoption of an urban water management plan pursuant to Part 2.6 (commencing with Section 10610) due in 2010 to allow use of technical methodologies developed by the department pursuant to paragraph (4) of subdivision (b) and subdivision (h). An urban retail water supplier that adopts an urban water management plan due in 2010 that does not use the methodologies developed by the department pursuant to subdivision (h) shall amend the plan by July 1, 2011, to comply with this part.
- 10608.22. Notwithstanding the method adopted by an urban retail water supplier pursuant to Section 10608.20, an urban retail water supplier's per capita daily water use reduction shall be no less than 5 percent of base daily per capita water use as defined in paragraph (3) of subdivision (b) of Section 10608.12. This section does not apply to an urban retail water supplier with a base daily per capita water use at or below 100 gallons per capita per day.

10608.24. (a) Each urban retail water supplier shall meet its interim urban water use target by December 31, 2015.

- (b) Each urban retail water supplier shall meet its urban water use target by December 31, 2020.
- (c) An urban retail water supplier's compliance daily per capita water use shall be the measure of progress toward achievement of its urban water use target.
- (d) (1) When determining compliance daily per capita water use, an urban retail water supplier may consider the following factors:
- (A) Differences in evapotranspiration and rainfall in the baseline period compared to the compliance reporting period.
- (B) Substantial changes to commercial or industrial water use resulting from increased business output and economic development that have occurred during the reporting period.
- (C) Substantial changes to institutional water use resulting from fire suppression services or other extraordinary events, or from new or expanded operations, that have occurred during the reporting period.

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(2) If the urban retail water supplier elects to adjust its estimate of compliance daily per capita water use due to one or more of the factors described in paragraph (1), it shall provide the basis for, and data supporting, the adjustment in the report required by Section 10608.40.

- (e) When developing the urban water use target pursuant to Section 10608.20, an urban retail water supplier that has a substantial percentage of industrial water use in its service area, may exclude process water from the calculation of gross water use to avoid a disproportionate burden on another customer sector.
- (f) (1) An urban retail water supplier that includes agricultural water use in an urban water management plan pursuant to Part 2.6 (commencing with Section 10610) may include the agricultural water use in determining gross water use. An urban retail water supplier that includes agricultural water use in determining gross water use and develops its urban water use target pursuant to paragraph (2) of subdivision (b) of Section 10608.20 shall use a water efficient standard for agricultural irrigation of 100 percent of reference evapotranspiration multiplied by the crop coefficient for irrigated acres.
- (2) An urban retail water supplier, that is also an agricultural water supplier, is not subject to the requirements of Chapter 4 (commencing with Section 10608.48), if the agricultural water use is incorporated into its urban water use target pursuant to paragraph (1).

10608.26. (a) In complying with this part, an urban retail water supplier shall conduct at least one public hearing to accomplish all of the following:

- (1) Allow community input regarding the urban retail water supplier's implementation plan for complying with this part.
- (2) Consider the economic impacts of the urban retail water supplier's implementation plan for complying with this part.
- (3) Adopt a method, pursuant to subdivision (b) of Section 10608.20, for determining its urban water use target.
- (b) In complying with this part, an urban retail water supplier may meet its urban water use target through efficiency improvements in any combination among its customer sectors. An urban retail water supplier shall avoid placing a disproportionate burden on any customer sector.
- (c) For an urban retail water supplier that supplies water to a United States Department of Defense military installation, the urban retail water supplier's implementation plan for complying with this part shall consider the United States Department of Defense military installation's requirements under federal Executive Order 13423.
- (d) (1) Any ordinance or resolution adopted by an urban retail water supplier after the effective date of this section shall not require existing customers as of the effective date of this section, to undertake changes in product formulation, operations, or equipment that would reduce process water use, but may provide technical assistance and financial incentives to those customers to implement efficiency measures for process water. This section shall not limit an ordinance or resolution adopted pursuant to a declaration of drought emergency by an urban retail water supplier.

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(2) This part shall not be construed or enforced so as to interfere with the requirements of Chapter 4 (commencing with Section 113980) to Chapter 13 (commencing with Section 114380), inclusive, of Part 7 of Division 104 of the Health and Safety Code, or any requirement or standard for the protection of public health, public safety, or worker safety established by federal, state, or local government or recommended by recognized standard setting organizations or trade associations.

10608.28. (a) An urban retail water supplier may meet its urban water use target within its retail service area, or through mutual agreement, by

any of the following:

(1) Through an urban wholesale water supplier.

- (2) Through a regional agency authorized to plan and implement water conservation, including, but not limited to, an agency established under the Bay Area Water Supply and Conservation Agency Act (Division 31 (commencing with Section 81300)).
- (3) Through a regional water management group as defined in Section 10537.
 - (4) By an integrated regional water management funding area.

(5) By hydrologic region.

- (6) Through other appropriate geographic scales for which computation methods have been developed by the department.
- (b) A regional water management group, with the written consent of its member agencies, may undertake any or all planning, reporting, and implementation functions under this chapter for the member agencies that consent to those activities. Any data or reports shall provide information both for the regional water management group and separately for each consenting urban retail water supplier and urban wholesale water supplier.
- 10608.32. All costs incurred pursuant to this part by a water utility regulated by the Public Utilities Commission may be recoverable in rates subject to review and approval by the Public Utilities Commission, and may be recorded in a memorandum account and reviewed for reasonableness by the Public Utilities Commission.
- 10608.36. Urban wholesale water suppliers shall include in the urban water management plans required pursuant to Part 2.6 (commencing with Section 10610) an assessment of their present and proposed future measures, programs, and policies to help achieve the water use reductions required by this part.
- 10608.40. Urban water retail suppliers shall report to the department on their progress in meeting their urban water use targets as part of their urban water management plans submitted pursuant to Section 10631. The data shall be reported using a standardized form developed pursuant to Section 10608.52.
- 10608.42. The department shall review the 2015 urban water management plans and report to the Legislature by December 31, 2016, on progress towards achieving a 20-percent reduction in urban water use by December 31, 2020. The report shall include recommendations on changes to water efficiency standards or urban water use targets in order to achieve

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the 20-percent reduction and to reflect updated efficiency information and technology changes.

10608.43. The department, in conjunction with the California Urban Water Conservation Council, by April 1, 2010, shall convene a representative task force consisting of academic experts, urban retail water suppliers, environmental organizations, commercial water users, industrial water users, and institutional water users to develop alternative best management practices for commercial, industrial, and institutional users and an assessment of the potential statewide water use efficiency improvement in the commercial, industrial, and institutional sectors that would result from implementation of these best management practices. The taskforce, in conjunction with the department, shall submit a report to the Legislature by April 1, 2012, that shall include a review of multiple sectors within commercial, industrial, and institutional users and that shall recommend water use efficiency standards for commercial, industrial, and institutional users among various sectors of water use. The report shall include, but not be limited to, the following:

- (a) Appropriate metrics for evaluating commercial, industrial, and institutional water use.
- (b) Evaluation of water demands for manufacturing processes, goods, and cooling.
- (c) Evaluation of public infrastructure necessary for delivery of recycled water to the commercial, industrial, and institutional sectors.
- (d) Evaluation of institutional and economic barriers to increased recycled water use within the commercial, industrial, and institutional sectors.
- (e) Identification of technical feasibility and cost of the best management practices to achieve more efficient water use statewide in the commercial, industrial, and institutional sectors that is consistent with the public interest and reflects past investments in water use efficiency.

10608.44. Each state agency shall reduce water use on facilities it operates to support urban retail water suppliers in meeting the target identified in Section 10608.16.

CHAPTER 4. AGRICULTURAL WATER SUPPLIERS

10608.48. (a) On or before July 31, 2012, an agricultural water supplier shall implement efficient water management practices pursuant to subdivisions (b) and (c).

(b) Agricultural water suppliers shall implement all of the following critical efficient management practices:

(1) Measure the volume of water delivered to customers with sufficient accuracy to comply with subdivision (a) of Section 531.10 and to implement paragraph (2).

(2) Adopt a pricing structure for water customers based at least in part on quantity delivered.

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- (c) Agricultural water suppliers shall implement additional efficient management practices, including, but not limited to, practices to accomplish all of the following, if the measures are locally cost effective and technically feasible:
- (1) Facilitate alternative land use for lands with exceptionally high water duties or whose irrigation contributes to significant problems, including drainage.
- (2) Facilitate use of available recycled water that otherwise would not be used beneficially, meets all health and safety criteria, and does not harm crops or soils.
- (3) Facilitate the financing of capital improvements for on-farm irrigation systems.
- (4) Implement an incentive pricing structure that promotes one or more of the following goals:
 - (A) More efficient water use at the farm level.
 - (B) Conjunctive use of groundwater.
 - (C) Appropriate increase of groundwater recharge.
 - (D) Reduction in problem drainage.
 - (E) Improved management of environmental resources.
- (F) Effective management of all water sources throughout the year by adjusting seasonal pricing structures based on current conditions.
- (5) Expand line or pipe distribution systems, and construct regulatory reservoirs to increase distribution system flexibility and capacity, decrease maintenance, and reduce seepage.
- (6) Increase flexibility in water ordering by, and delivery to, water customers within operational limits.
 - (7) Construct and operate supplier spill and tailwater recovery systems.
- (8) Increase planned conjunctive use of surface water and groundwater within the supplier service area.
 - (9) Automate canal control structures.
 - (10) Facilitate or promote customer pump testing and evaluation.
- (11) Designate a water conservation coordinator who will develop and implement the water management plan and prepare progress reports.
- (12) Provide for the availability of water management services to water users. These services may include, but are not limited to, all of the following:
 - (A) On-farm irrigation and drainage system evaluations.
- (B) Normal year and real-time irrigation scheduling and crop evapotranspiration information.
- (C) Surface water, groundwater, and drainage water quantity and quality data.
- (D) Agricultural water management educational programs and materials for farmers, staff, and the public.
- (13) Evaluate the policies of agencies that provide the supplier with water to identify the potential for institutional changes to allow more flexible water deliveries and storage.
 - (14) Evaluate and improve the efficiencies of the supplier's pumps.

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- (d) Agricultural water suppliers shall include in the agricultural water management plans required pursuant to Part 2.8 (commencing with Section 10800) a report on which efficient water management practices have been implemented and are planned to be implemented, an estimate of the water use efficiency improvements that have occurred since the last report, and an estimate of the water use efficiency improvements estimated to occur five and 10 years in the future. If an agricultural water supplier determines that an efficient water management practice is not locally cost effective or technically feasible, the supplier shall submit information documenting that determination.
- (e) The data shall be reported using a standardized form developed pursuant to Section 10608.52.
- (f) An agricultural water supplier may meet the requirements of subdivisions (d) and (e) by submitting to the department a water conservation plan submitted to the United States Bureau of Reclamation that meets the requirements described in Section 10828.
- (g) On or before December 31, 2013, December 31, 2016, and December 31, 2021, the department, in consultation with the board, shall submit to the Legislature a report on the agricultural efficient water management practices that have been implemented and are planned to be implemented and an assessment of the manner in which the implementation of those efficient water management practices has affected and will affect agricultural operations, including estimated water use efficiency improvements, if any.
- (h) The department may update the efficient water management practices required pursuant to subdivision (c), in consultation with the Agricultural Water Management Council, the United States Bureau of Reclamation, and the board. All efficient water management practices for agricultural water use pursuant to this chapter shall be adopted or revised by the department only after the department conducts public hearings to allow participation of the diverse geographical areas and interests of the state.
- (i) (1) The department shall adopt regulations that provide for a range of options that agricultural water suppliers may use or implement to comply with the measurement requirement in paragraph (1) of subdivision (b).
- (2) The initial adoption of a regulation authorized by this subdivision is deemed to address an emergency, for purposes of Sections 11346.1 and 11349.6 of the Government Code, and the department is hereby exempted for that purpose from the requirements of subdivision (b) of Section 11346.1 of the Government Code. After the initial adoption of an emergency regulation pursuant to this subdivision, the department shall not request approval from the Office of Administrative Law to readopt the regulation as an emergency regulation pursuant to Section 11346.1 of the Government Code.

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Chapter 5. Sustainable Water Management

- 10608.50. (a) The department, in consultation with the board, shall promote implementation of regional water resources management practices through increased incentives and removal of barriers consistent with state and federal law. Potential changes may include, but are not limited to, all of the following:
- (1) Revisions to the requirements for urban and agricultural water management plans.
- (2) Revisions to the requirements for integrated regional water management plans.
- (3) Revisions to the eligibility for state water management grants and loans.
- (4) Revisions to state or local permitting requirements that increase water supply opportunities, but do not weaken water quality protection under state and federal law.
- (5) Increased funding for research, feasibility studies, and project construction.
- (6) Expanding technical and educational support for local land use and water management agencies.
- (b) No later than January 1, 2011, and updated as part of the California Water Plan, the department, in consultation with the board, and with public input, shall propose new statewide targets, or review and update existing statewide targets, for regional water resources management practices, including, but not limited to, recycled water, brackish groundwater desalination, and infiltration and direct use of urban stormwater runoff.

CHAPTER 6. STANDARDIZED DATA COLLECTION

- 10608.52. (a) The department, in consultation with the board, the California Bay-Delta Authority or its successor agency, the State Department of Public Health, and the Public Utilities Commission, shall develop a single standardized water use reporting form to meet the water use information needs of each agency, including the needs of urban water suppliers that elect to determine and report progress toward achieving targets on a regional basis as provided in subdivision (a) of Section 10608.28.
- (b) At a minimum, the form shall be developed to accommodate information sufficient to assess an urban water supplier's compliance with conservation targets pursuant to Section 10608.24 and an agricultural water supplier's compliance with implementation of efficient water management practices pursuant to subdivision (a) of Section 10608.48. The form shall accommodate reporting by urban water suppliers on an individual or regional basis as provided in subdivision (a) of Section 10608.28.

CHAPTER 7. FUNDING PROVISIONS

10608.56. (a) On and after July 1, 2016, an urban retail water supplier is not eligible for a water grant or loan awarded or administered by the state unless the supplier complies with this part.

(b) On and after July 1, 2013, an agricultural water supplier is not eligible for a water grant or loan awarded or administered by the state unless the

supplier complies with this part.

- (c) Notwithstanding subdivision (a), the department shall determine that an urban retail water supplier is eligible for a water grant or loan even though the supplier has not met the per capita reductions required pursuant to Section 10608.24, if the urban retail water supplier has submitted to the department for approval a schedule, financing plan, and budget, to be included in the grant or loan agreement, for achieving the per capita reductions. The supplier may request grant or loan funds to achieve the per capita reductions to the extent the request is consistent with the eligibility requirements applicable to the water funds.
- (d) Notwithstanding subdivision (b), the department shall determine that an agricultural water supplier is eligible for a water grant or loan even though the supplier is not implementing all of the efficient water management practices described in Section 10608.48, if the agricultural water supplier has submitted to the department for approval a schedule, financing plan, and budget, to be included in the grant or loan agreement, for implementation of the efficient water management practices. The supplier may request grant or loan funds to implement the efficient water management practices to the extent the request is consistent with the eligibility requirements applicable to the water funds.
- (e) Notwithstanding subdivision (a), the department shall determine that an urban retail water supplier is eligible for a water grant or loan even though the supplier has not met the per capita reductions required pursuant to Section 10608.24, if the urban retail water supplier has submitted to the department for approval documentation demonstrating that its entire service area qualifies as a disadvantaged community.
- (f) The department shall not deny eligibility to an urban retail water supplier or agricultural water supplier in compliance with the requirements of this part and Part 2.8 (commencing with Section 10800), that is participating in a multiagency water project, or an integrated regional water management plan, developed pursuant to Section 75026 of the Public Resources Code, solely on the basis that one or more of the agencies participating in the project or plan is not implementing all of the requirements of this part or Part 2.8 (commencing with Section 10800).
- 10608.60. (a) It is the intent of the Legislature that funds made available by Section 75026 of the Public Resources Code should be expended, consistent with Division 43 (commencing with Section 75001) of the Public Resources Code and upon appropriation by the Legislature, for grants to implement this part. In the allocation of funding, it is the intent of the

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Legislature that the department give consideration to disadvantaged communities to assist in implementing the requirements of this part.

(b) It is the intent of the Legislature that funds made available by Section 75041 of the Public Resources Code, should be expended, consistent with Division 43 (commencing with Section 75001) of the Public Resources Code and upon appropriation by the Legislature, for direct expenditures to implement this part.

CHAPTER 8. QUANTIFYING AGRICULTURAL WATER USE EFFICIENCY

10608.64. The department, in consultation with the Agricultural Water Management Council, academic experts, and other stakeholders, shall develop a methodology for quantifying the efficiency of agricultural water use. Alternatives to be assessed shall include, but not be limited to, determination of efficiency levels based on crop type or irrigation system distribution uniformity. On or before December 31, 2011, the department shall report to the Legislature on a proposed methodology and a plan for implementation. The plan shall include the estimated implementation costs and the types of data needed to support the methodology. Nothing in this section authorizes the department to implement a methodology established pursuant to this section.

SEC. 2. Section 10631.5 of the Water Code is amended to read:

- 10631.5. (a) (1) Beginning January 1, 2009, the terms of, and eligibility for, a water management grant or loan made to an urban water supplier and awarded or administered by the department, state board, or California Bay-Delta Authority or its successor agency shall be conditioned on the implementation of the water demand management measures described in Section 10631, as determined by the department pursuant to subdivision (b).
- (2) For the purposes of this section, water management grants and loans include funding for programs and projects for surface water or groundwater storage, recycling, desalination, water conservation, water supply reliability, and water supply augmentation. This section does not apply to water management projects funded by the federal American Recovery and Reinvestment Act of 2009 (Public Law 111-5).
- (3) Notwithstanding paragraph (1), the department shall determine that an urban water supplier is eligible for a water management grant or loan even though the supplier is not implementing all of the water demand management measures described in Section 10631, if the urban water supplier has submitted to the department for approval a schedule, financing plan, and budget, to be included in the grant or loan agreement, for implementation of the water demand management measures. The supplier may request grant or loan funds to implement the water demand management measures to the extent the request is consistent with the eligibility requirements applicable to the water management funds.

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- (4) (A) Notwithstanding paragraph (1), the department shall determine that an urban water supplier is eligible for a water management grant or loan even though the supplier is not implementing all of the water demand management measures described in Section 10631, if an urban water supplier submits to the department for approval documentation demonstrating that a water demand management measure is not locally cost effective. If the department determines that the documentation submitted by the urban water supplier fails to demonstrate that a water demand management measure is not locally cost effective, the department shall notify the urban water supplier and the agency administering the grant or loan program within 120 days that the documentation does not satisfy the requirements for an exemption, and include in that notification a detailed statement to support the determination.
- (B) For purposes of this paragraph, "not locally cost effective" means that the present value of the local benefits of implementing a water demand management measure is less than the present value of the local costs of implementing that measure.
- (b) (1) The department, in consultation with the state board and the California Bay-Delta Authority or its successor agency, and after soliciting public comment regarding eligibility requirements, shall develop eligibility requirements to implement the requirement of paragraph (1) of subdivision (a). In establishing these eligibility requirements, the department shall do both of the following:
- (A) Consider the conservation measures described in the Memorandum of Understanding Regarding Urban Water Conservation in California, and alternative conservation approaches that provide equal or greater water savings.
- (B) Recognize the different legal, technical, fiscal, and practical roles and responsibilities of wholesale water suppliers and retail water suppliers.
- (2) (A) For the purposes of this section, the department shall determine whether an urban water supplier is implementing all of the water demand management measures described in Section 10631 based on either, or a combination, of the following:
 - (i) Compliance on an individual basis.
- (ii) Compliance on a regional basis. Regional compliance shall require participation in a regional conservation program consisting of two or more urban water suppliers that achieves the level of conservation or water efficiency savings equivalent to the amount of conservation or savings achieved if each of the participating urban water suppliers implemented the water demand management measures. The urban water supplier administering the regional program shall provide participating urban water suppliers and the department with data to demonstrate that the regional program is consistent with this clause. The department shall review the data to determine whether the urban water suppliers in the regional program are meeting the eligibility requirements.
- (B) The department may require additional information for any determination pursuant to this section.

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(3) The department shall not deny eligibility to an urban water supplier in compliance with the requirements of this section that is participating in a multiagency water project, or an integrated regional water management plan, developed pursuant to Section 75026 of the Public Resources Code, solely on the basis that one or more of the agencies participating in the project or plan is not implementing all of the water demand management measures described in Section 10631.

(c) In establishing guidelines pursuant to the specific funding authorization for any water management grant or loan program subject to this section, the agency administering the grant or loan program shall include in the guidelines the eligibility requirements developed by the department

pursuant to subdivision (b).

- (d) Upon receipt of a water management grant or loan application by an agency administering a grant and loan program subject to this section, the agency shall request an eligibility determination from the department with respect to the requirements of this section. The department shall respond to the request within 60 days of the request.
- (e) The urban water supplier may submit to the department copies of its annual reports and other relevant documents to assist the department in determining whether the urban water supplier is implementing or scheduling the implementation of water demand management activities. In addition, for urban water suppliers that are signatories to the Memorandum of Understanding Regarding Urban Water Conservation in California and submit biennial reports to the California Urban Water Conservation Council in accordance with the memorandum, the department may use these reports to assist in tracking the implementation of water demand management measures.
- (f) This section shall remain in effect only until July 1, 2016, and as of that date is repealed, unless a later enacted statute, that is enacted before July 1, 2016, deletes or extends that date.
- ŠEĆ. 3. Part 2.8 (commencing with Section 10800) of Division 6 of the Water Code is repealed.
- SEC. 4. Part 2.8 (commencing with Section 10800) is added to Division 6 of the Water Code, to read:

PART 2.8. AGRICULTURAL WATER MANAGEMENT PLANNING

CHAPTER 1. GENERAL DECLARATIONS AND POLICY

- 10800. This part shall be known and may be cited as the Agricultural Water Management Planning Act.
 - 10801. The Legislature finds and declares all of the following:
 - (a) The waters of the state are a limited and renewable resource.
- (b) The California Constitution requires that water in the state be used in a reasonable and beneficial manner.
 - (c) Urban water districts are required to adopt water management plans.

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- (d) The conservation of agricultural water supplies is of great statewide concern.
- (e) There is a great amount of reuse of delivered water, both inside and outside the water service areas.
- (f) Significant noncrop beneficial uses are associated with agricultural water use, including streamflows and wildlife habitat.
- (g) Significant opportunities exist in some areas, through improved irrigation water management, to conserve water or to reduce the quantity of highly saline or toxic drainage water.
- (h) Changes in water management practices should be carefully planned and implemented to minimize adverse effects on other beneficial uses currently being served.
- (i) Agricultural water suppliers that receive water from the federal Central Valley Project are required by federal law to prepare and implement water conservation plans.
- (j) Agricultural water users applying for a permit to appropriate water from the board are required to prepare and implement water conservation plans.
- 10802. The Legislature finds and declares that all of the following are the policies of the state:
- (a) The conservation of water shall be pursued actively to protect both the people of the state and the state's water resources.
- (b) The conservation of agricultural water supplies shall be an important criterion in public decisions with regard to water.
- (c) Agricultural water suppliers shall be required to prepare water management plans to achieve conservation of water.

Chapter 2. Definitions

- 10810. Unless the context otherwise requires, the definitions set forth in this chapter govern the construction of this part.
- 10811. "Agricultural water management plan" or "plan" means an agricultural water management plan prepared pursuant to this part.
- 10812. "Agricultural water supplier" has the same meaning as defined in Section 10608.12.
- 10813. "Customer" means a purchaser of water from a water supplier who uses water for agricultural purposes.
- 10814. "Person" means any individual, firm, association, organization, partnership, business, trust, corporation, company, public agency, or any agency of that entity.
- 10815. "Public agency" means any city, county, city and county, special district, or other public entity.
- 10816. "Urban water supplier" has the same meaning as set forth in Section 10617.

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10817. "Water conservation" means the efficient management of water resources for beneficial uses, preventing waste, or accomplishing additional benefits with the same amount of water.

CHAPTER 3. AGRICULTURAL WATER MANAGEMENT PLANS

Article 1. General Provisions

- 10820. (a) An agricultural water supplier shall prepare and adopt an agricultural water management plan in the manner set forth in this chapter on or before December 31, 2012, and shall update that plan on December 31, 2015, and on or before December 31 every five years thereafter.
- (b) Every supplier that becomes an agricultural water supplier after December 31, 2012, shall prepare and adopt an agricultural water management plan within one year after the date it has become an agricultural water supplier.
- (c) A water supplier that indirectly provides water to customers for agricultural purposes shall not prepare a plan pursuant to this part without the consent of each agricultural water supplier that directly provides that water to its customers.
- 10821. (a) An agricultural water supplier required to prepare a plan pursuant to this part shall notify each city or county within which the supplier provides water supplies that the agricultural water supplier will be preparing the plan or reviewing the plan and considering amendments or changes to the plan. The agricultural water supplier may consult with, and obtain comments from, each city or county that receives notice pursuant to this subdivision.
- (b) The amendments to, or changes in, the plan shall be adopted and submitted in the manner set forth in Article 3 (commencing with Section 10840).

Article 2. Contents of Plans

- 10825. (a) It is the intent of the Legislature in enacting this part to allow levels of water management planning commensurate with the numbers of customers served and the volume of water supplied.
- (b) This part does not require the implementation of water conservation programs or practices that are not locally cost effective.
- 10826. An agricultural water management plan shall be adopted in accordance with this chapter. The plan shall do all of the following:
- (a) Describe the agricultural water supplier and the service area, including all of the following:
 - (1) Size of the service area.
 - (2) Location of the service area and its water management facilities.
 - (3) Terrain and soils.
 - (4) Climate.

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- (5) Operating rules and regulations.
- (6) Water delivery measurements or calculations.
- (7) Water rate schedules and billing.
- (8) Water shortage allocation policies.
- (b) Describe the quantity and quality of water resources of the agricultural water supplier, including all of the following:
 - (1) Surface water supply.
 - (2) Groundwater supply.
 - (3) Other water supplies.
 - (4) Source water quality monitoring practices.
- (5) Water uses within the agricultural water supplier's service area, including all of the following:
 - (A) Agricultural.
 - (B) Environmental.
 - (C) Recreational.
 - (D) Municipal and industrial.
 - (E) Groundwater recharge.
 - (F) Transfers and exchanges.
 - (G) Other water uses.
 - (6) Drainage from the water supplier's service area.
 - (7) Water accounting, including all of the following:
 - (A) Quantifying the water supplier's water supplies.
 - (B) Tabulating water uses.
 - (C) Overall water budget.
 - (8) Water supply reliability.
- (c) Include an analysis, based on available information, of the effect of climate change on future water supplies.
 - (d) Describe previous water management activities.
- (e) Include in the plan the water use efficiency information required pursuant to Section 10608.48.
- 10827. Agricultural water suppliers that are members of the Agricultural Water Management Council, and that submit water management plans to that council in accordance with the "Memorandum of Understanding Regarding Efficient Water Management Practices By Agricultural Water Suppliers In California," dated January 1, 1999, may submit the water management plans identifying water demand management measures currently being implemented, or scheduled for implementation, to satisfy the requirements of Section 10826.
- 10828. (a) Agricultural water suppliers that are required to submit water conservation plans to the United States Bureau of Reclamation pursuant to either the Central Valley Project Improvement Act (Public Law 102-575) or the Reclamation Reform Act of 1982, or both, may submit those water conservation plans to satisfy the requirements of Section 10826, if both of the following apply:
- (1) The agricultural water supplier has adopted and submitted the water conservation plan to the United States Bureau of Reclamation within the previous four years.

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(2) The United States Bureau of Reclamation has accepted the water conservation plan as adequate.

- (b) This part does not require agricultural water suppliers that are required to submit water conservation plans to the United States Bureau of Reclamation pursuant to either the Central Valley Project Improvement Act (Public Law 102-575) or the Reclamation Reform Act of 1982, or both, to prepare and adopt water conservation plans according to a schedule that is different from that required by the United States Bureau of Reclamation.
- 10829. An agricultural water supplier may satisfy the requirements of this part by adopting an urban water management plan pursuant to Part 2.6 (commencing with Section 10610) or by participation in areawide, regional, watershed, or basinwide water management planning if those plans meet or exceed the requirements of this part.

Article 3. Adoption and Implementation of Plans

10840. Every agricultural water supplier shall prepare its plan pursuant to Article 2 (commencing with Section 10825).

10841. Prior to adopting a plan, the agricultural water supplier shall make the proposed plan available for public inspection, and shall hold a public hearing on the plan. Prior to the hearing, notice of the time and place of hearing shall be published within the jurisdiction of the publicly owned agricultural water supplier pursuant to Section 6066 of the Government Code. A privately owned agricultural water supplier shall provide an equivalent notice within its service area and shall provide a reasonably equivalent opportunity that would otherwise be afforded through a public hearing process for interested parties to provide input on the plan. After the hearing, the plan shall be adopted as prepared or as modified during or after the hearing.

10842. An agricultural water supplier shall implement the plan adopted pursuant to this chapter in accordance with the schedule set forth in its plan, as determined by the governing body of the agricultural water supplier.

- 10843. (a) An agricultural water supplier shall submit to the entities identified in subdivision (b) a copy of its plan no later than 30 days after the adoption of the plan. Copies of amendments or changes to the plans shall be submitted to the entities identified in subdivision (b) within 30 days after the adoption of the amendments or changes.
- (b) An agricultural water supplier shall submit a copy of its plan and amendments or changes to the plan to each of the following entities:
 - (1) The department.
- (2) Any city, county, or city and county within which the agricultural water supplier provides water supplies.
- (3) Any groundwater management entity within which jurisdiction the agricultural water supplier extracts or provides water supplies.
- (4) Any urban water supplier within which jurisdiction the agricultural water supplier provides water supplies.

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- (5) Any city or county library within which jurisdiction the agricultural water supplier provides water supplies.
 - (6) The California State Library.
- (7) Any local agency formation commission serving a county within which the agricultural water supplier provides water supplies.
- 10844. (a) Not later than 30 days after the date of adopting its plan, the agricultural water supplier shall make the plan available for public review on the agricultural water supplier's Internet Web site.
- (b) An agricultural water supplier that does not have an Internet Web site shall submit to the department, not later than 30 days after the date of adopting its plan, a copy of the adopted plan in an electronic format. The department shall make the plan available for public review on the department's Internet Web site.
- 10845. (a) The department shall prepare and submit to the Legislature, on or before December 31, 2013, and thereafter in the years ending in six and years ending in one, a report summarizing the status of the plans adopted pursuant to this part.
- (b) The report prepared by the department shall identify the outstanding elements of any plan adopted pursuant to this part. The report shall include an evaluation of the effectiveness of this part in promoting efficient agricultural water management practices and recommendations relating to proposed changes to this part, as appropriate.
- (c) The department shall provide a copy of the report to each agricultural water supplier that has submitted its plan to the department. The department shall also prepare reports and provide data for any legislative hearing designed to consider the effectiveness of plans submitted pursuant to this part.
- (d) This section does not authorize the department, in preparing the report, to approve, disapprove, or critique individual plans submitted pursuant to this part.

CHAPTER 4. MISCELLANEOUS PROVISIONS

- 10850. (a) Any action or proceeding to attack, review, set aside, void, or annul the acts or decisions of an agricultural water supplier on the grounds of noncompliance with this part shall be commenced as follows:
- (1) An action or proceeding alleging failure to adopt a plan shall be commenced within 18 months after that adoption is required by this part.
- (2) Any action or proceeding alleging that a plan, or action taken pursuant to the plan, does not comply with this part shall be commenced within 120 days after submitting the plan or amendments to the plan to entities in accordance with Section 10844 or the taking of that action.
- (b) In an action or proceeding to attack, review, set aside, void, or annul a plan, or an action taken pursuant to the plan by an agricultural water supplier, on the grounds of noncompliance with this part, the inquiry shall extend only to whether there was a prejudicial abuse of discretion. Abuse

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of discretion is established if the agricultural water supplier has not proceeded in a manner required by law, or if the action by the agricultural water supplier is not supported by substantial evidence.

10851. The California Environmental Quality Act (Division 13 (commencing with Section 21000) of the Public Resources Code) does not apply to the preparation and adoption of plans pursuant to this part. This part does not exempt projects for implementation of the plan or for expanded or additional water supplies from the California Environmental Quality Act.

10852. An agricultural water supplier is not eligible for a water grant or loan awarded or administered by the state unless the supplier complies

with this part.

10853. No agricultural water supplier that provides water to less than 25,000 irrigated acres, excluding recycled water, shall be required to implement the requirements of this part or Part 2.55 (commencing with Section 10608) unless sufficient funding has specifically been provided to that water supplier for these purposes.

SEC. 5. This act shall take effect only if Senate Bill 1 and Senate Bill 6 of the 2009-10 Seventh Extraordinary Session of the Legislature are

enacted and become effective.

APPENDIX B.1 Notification to Agencies within Service Area



TO: Potentially Interested Agency

FROM: Upper San Gabriel Valley Municipal Water District

SUBJECT: Urban Water Management Plan 2010 Update

DATE: August 23, 2010

The Urban Water Management Planning Act requires every "urban water supplier¹" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Upper San Gabriel Valley Municipal Water District (Upper District) is currently in the process of preparing the 2010 update to its UWMP.

As an urban water supplier, Upper District is required pursuant to Section 10620(d)(2) of the UWMP Act to coordinate with water management agencies, relevant public agencies and other water suppliers on the preparation of the UWMP. Upper District will be reviewing the UWMP and will make amendments and changes, as appropriate. Upper District invites you to submit comments in anticipation of the development of our 2010 UWMP.

Please provide written comments within the next 15 days to Upper District.

¹Section 10617 of the Urban Water Management Planning Act states, ""Urban Water Supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.

Adams Ranch Mutual Water Company Mr. Dominic T. Cimarusti 9343 Pitkin Street Rosemead, CA 91770 (626) 625-8931 mcimarus@pacbell.net

Amarillo Mutual Water Company Mr. John Holzinger Ms. Blanche Vizzini 3404 North Burton Ave. Rosemead, CA (626) 280-0660 Amarillo1920@sbcglobal.net

City of Arcadia Mr. Tom Tait P.O. Box 60021 11800 Gold Ring Road Arcadia, CA 91006-6021 (626) 256-6551 ttait@ci.arcadia.ca.us

City of Azusa Light & Water Mr. Chet Anderson 729 N. Azusa Ave. Azusa, CA 91702 (626) 812-5219 canderson@ci.azusa.ca.us

California American Water Company (Duarte System and San Marino) Mr. Joe Marcinko 2020 Huntington Drive San Marino, CA 91108 imarcinko@amwater.com

California Domestic Water Company
Mr. Jim Byerrum
P.O. Box 1338
Whittier, CA 90609
(562) 947-3811
ibyerrum@cdwc.com
Champion Mutual Water
Company
Mr. Bryan Hellein
P.O. Box 4093
El Monte, CA 91734
bhellein@ci.el-monte.ca.us

City of Covina Mr. Paul Hertz 125 East College Street Covina, CA 91723 (626) 858-7294 phertz@ci.covina.ca.us

Covina Irrigating Company Mr. David de Jesus 125 East College Street Covina, CA 92428 (626) 332-1502 daviddj@cich2o.com

Del Rio Mutual Water Company Mr. Dario Herrera 12417 Clinton El Monte, CA 91734 (626) 350-0381

East Pasadena Water Co., Ltd. Mr. Wayne Goehring 3725 East Mountainview Ave. Pasadena, CA 91107 (626) 793-6189 wayne@epwater.com

City of El Monte Mr. Bryan Hellein 3527 Santa Anita Ave. El Monte, CA 91731 (626) 580-2250 bhellein@ci.el-monte.ca.us

City of Glendora Mr. Steve Patton 116 E. Foothill Blvd. Glendora, CA 91741 (626) 914-8245 spatton@ci.glendora.ca.us

Hemlock Mutual Water Company Mr. Robert McClung 12066 Celine Street El Monte, CA 91732 (626) 448-7100

Industry Public Works
Mr. Greg Galindo
C/O La Puente Water District
112 North First Street
La Puente, CA 91744
626) 330-2126
ggalindo.lpvcwd@verizon.net

La Puente Valley County Water District Mr. Greg Galindo 112 N. 1st St. La Puente, CA 91744 (626) 330-2126 ggalindo.lpvcwd@verizon.net

City of Monrovia
Mr. Mark Carney
415 South Ivy Avenue
Monrovia, CA 91016
(626) 256-8211
mcarney@ci.monrovia.ca.us

Rurban Homes Mutual Water Company Mr. George Bucey 5044 No. Cogswell El Monte, CA 91732 (626) 448-5272

San Gabriel County Water District Mr. Chuck Shaw P.O. Box 2227 San Gabriel, CA 91778-2227 (626) 287-0341 chuck0415@mindspring.com

San Gabriel Valley Water Company Mr. Dan Arrighi P.O. Box 6010 El Monte, CA 91734 (626) 448-6183 darrighi@sgvwater.com

City of South Pasadena Mr. Anteneh Tesfaye 825 Mission Street South Pasadena, CA 91030 (626) 403-7376 ATesfaye@ci.southpasadena.ca.us

Golden State Water Company San Gabriel District Mr. Ben Lewis 401 South San Dimas Canyon Road San Dimas, CA 91773 (909) 592-4271 x 106 benjamin.lewis@gswater.com Sterling Mutual Water Company Ms. Joy Ann Burt 11922 Lambert Ave. El Monte, CA 91732 (626) 350-9314

Suburban Water Systems Mr. Richard Rich 1211 East Center Court Drive Covina, CA 91724 (626) 543-2551 RRich@swwc.com

Sunny Slope Water Company Mr. Ken Tcheng 1040 El Campo Drive Pasadena, CA 91107 (626) 287-5238 sswc01@sbcglobal.net

Valencia Heights Water Company Mr. Dave Michalko 3009 Virginia Ave. West Covina, CA 91791 (626) 332-8935 vhwc@aol.com

Valley County Water District Mr. Brian Dickinson 14521 E. Ramona Blvd. Baldwin Park, CA 91706 (626) 338-7301 bdickinson@vcwd.org

Valley View Mutual Water Company Ms. Sukie Madrid 13730 E. Los Angeles St. Baldwin Park, CA 91706 (626) 960-2759

City of Whittier
Mr. Ken Kittridge
13230 Penn Street
Whittier, CA 90601
(562) 464-3510
kkittridge@cityofwhittier.org

Main San Gabriel Basin Watermaster Ms. Carol Williams 725 N. Azusa Avenue Azusa, CA 91702 (626) 815-1300 carol@watermaster.org

San Gabriel River Watermaster 101 N. Brand Blvd, Ste 1780 Glendale, CA 91203 (818) 552-6400

County of Los Angeles Attn: Registrar – Recorder / County Clerk 12400 Imperial Highway Norwalk, CA 90650

City of Baldwin Park Attn: City Clerk 1440 E. Pacific Ave. Baldwin Park, CA 91706

City of Bradbury Attn: City Clerk 600 Winston Ave. Bradbury, CA 91010

City of Duarte Attn: City Clerk 1600 Huntington Drive Duarte, CA 91010

City of Industry Attn: City Clerk 15625 Stafford St #100 Industry, CA 91744

City of Irwindale Attn: City Clerk 5050 North Irwindale Ave. Irwindale, CA 91706

City of La Puente Attn: City Clerk 15900 E. Main Street La Puente, CA 91744

City of Rosemead Attn: City Clerk 8838 E. Valley Blvd. Rosemead, CA 91770 City of San Gabriel Attn: City Clerk 425 S. Mission Drive San Gabriel, CA 91776

City of South El Monte Attn: City Clerk 1415 Santa Anita Ave. South El Monte, CA 91733

City of Temple City Attn: City Clerk 9701 Las Tunas Drive Temple City, CA 91780

City of West Covina Attn: City Clerk 1444 W. Garvey West Covina, CA 91790

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Valley County Water District 14521 Ramona Boulevard Baldwin Park, CA 91706

(626) 338-7301 (626) 814-2973 Fax SP 00 263

September 2, 2010

Mr. Steve Johnson, Interim General Manager Upper San Gabriel Valley Municipal Water District 11310 Valley Boulevard El Monte, CA 91731

Subject: 2010 Urban Water Management Plan Update

Dear Mr. Johnson:

Valley County Water District appreciates the opportunity to provide comments to the Upper San Gabriel Valley Municipal Water District's (USGVMWD) 2010 Urban Water Management Plan (UWMP) update, as we will be referencing that document in our 2010 UWMP update.

Valley County Water District would like to see an expansion of the Phase III Recycled Water Use Project from the 2005 UWMP, to include more of the cities of Irwindale and Baldwin Park in the Valley County Water District service area. The District potentially has up to 500 acre-feet of demand for recycled water for irrigation purposes.

If you need any more information, please contact me at 626-338-7301, ext. 201.

Sincerely,

Brian A. Dickinson General Manager



MEMORANDUM

TO:

Upper San Gabriel Valley Municipal Water District

Attn: Ms. Janet Garner 11310 Valley Blvd. El Monte, CA 91731

FROM:

California Domestic Water Company

SUBJECT:

2010 Urban Water Management Plan Update

DATE:

July 8, 2010

The Urban Water Management Planning Act requires every "urban water supplier¹" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. California Domestic Water Company (CDWC) is currently in the process of updating our 2010 UWMP.

As an urban water supplier, CDWC is required pursuant to Section 10620(d)(2) of the UWMP Act to coordinate with water management agencies, relevant public agencies and other water suppliers on the preparation of the UWMP. CDWC will be reviewing the UWMP and will make amendments and changes, as appropriate. CDWC invites you to submit comments in anticipation of the development of our 2010 UWMP.

Please provide written comments within the next 30 days to CDWC.

¹Section 10617 of the Urban Water Management Planning Act states, "Urban Water Supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.



19 July 2010

Timothy C. Jochem General Manager Upper San Gabriel Valley Municipal Water District 11310 Valley Blvd. El Monte, CA 91731

Subject:

Golden State Water Company - South San Gabriel System

2010 Urban Water Management Plan Preparation Notification and Information Request

K/J 1070001*00

Dear Timothy C. Jochem:

Golden State Water Company (GSWC) is in the process of preparing its 2010 Urban Water Management Plan (UWMP) for the South San Gabriel System as required by State of California Law through the Urban Water Management Planning Act. The UWMP Act requires that Urban Water Retailers document water supply and demand projections, reliability and other water-related considerations through the year 2035. This letter is provided as your official notice of UWMP preparation and request for information since your agency is an existing wholesale water supplier to GSWC. The UWMP process is intended to be a collaborative effort between all project stakeholders to the extent practicable and we welcome your input into this process.

As a wholesale water supplier to GSWC, it is critical that your water supply projections and reliability conditions are carefully prepared and reflected in the UWMP documents. To that end, we would appreciate collaboration on developing responses to the information required by the UWMP Act and included in the 2005 UWMP Guidebook issued by the Department of Water Resources. We have enclosed the Water Supply chapter from the 2005 UWMP for the South San Gabriel System for your reference and use as applicable to answering the following questions:

- 1. Current and planned water supply sources; provide projections (acre-feet per year) in fivevear increments beginning with 2005 to 2035 for each source.
- 2. Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a). If groundwater is identified as an existing or planned source of water available to the supplier, all of the following information shall be included in the plan:
 - a. A copy of any groundwater management plan adopted by the urban water supplier, including plans adopted pursuant to Part 2.75 (commencing with Section 10750), or any other specific authorization for groundwater management.
 - i. A description of any groundwater basin or basins from which the urban water supplier pumps groundwater. For those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of groundwater the urban water supplier has the legal right to pump under the order or decree.

Timothy C. Jochem Upper San Gabriel Valley Municipal Water District 19 July 2010 Page 2

- ii. For basins that have not been adjudicated, information as to whether the department has identified the basin or basins as overdrafted or has projected that the basin will become overdrafted if present management conditions continue, in the most current official departmental bulletin that characterizes the condition of the groundwater basin, and a detailed description of the efforts being undertaken by the urban water supplier to eliminate the long-term overdraft condition.
- b. A detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water supplier for the past five years. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.
- c. A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the urban water supplier. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.
- 3. Describe the reliability of the water supply for each source to seasonal or climatic shortage and provide data for the following:
 - a. Average water year (acre-feet per year)
 - b. Single dry water year (acre-feet per year)
 - c. Multiple dry water years (acre-feet per year)
- 4. For any water source that may not be available at a consistent level of use given legal, environmental, water quality or climatic factors, describe plans to supplement or replace that source with alternative sources or water demand management measures.
- 5. Are there opportunities for transfers or exchanges of water on a short term or long term basis? If so, please describe.
- 6. Are there any future projects and/or programs identified to increase the amount of water supply available? If so, please specify project, amount of increase in water supply and expected implementation timeline.

We appreciate timely attention to the information requested above and ask you provide initial responses no later than **3 August 2010**. Kennedy/Jenks Consultants is preparing the UWMP under contract with GSWC and will be contacting you directly within the next few weeks to follow up on this request. In the meantime, should you have any questions or concerns please feel free to contact Sean Maguire with Kennedy/Jenks Consultants at seanmaguire@kennedyjenks.com or (916) 858-2700.

Very truly yours,

GOLDEN STATE WATER COMPANY

Dan W. Talaga, P.E. Sr. Civil Engineer

Enclosure



COUNTY OF LOS ANGELES REGISTRAR-RECORDER/COUNTY CLERK

12400 IMPERIAL HWY. - P.O. BOX 1208, NORWALK, CALIFORNIA 90651-1208 - www.lavote.net

DEAN C. LOGANRegistrar-Recorder/County Clerk

September 3, 2010

Upper San Gabriel Valley Municipal Water District 11310 Valley Boulevard El Monte, CA 91731

To Whom It May Concern:

In an effort to process your request, our office conducted a thorough search for any ordinances, provisions or statues that would enable us to file your document. However, we were unsuccessful in obtaining codes that require our Department to file and/or post the attached document with the Los Angeles County Clerks office. Consequently, we are unable to process your request as there is no provision to file.

If you feel your request has been returned in error, and you have information on the ordinance, provision or statue that requires the Los Angeles County Clerks office to file your document in our office, please return your document along with the specific information.

Should you need further assistance please feel free to contact me at (562)462-2122.

Sincerely,

Dean C. Logan

Registrar-Recorder/County Clerk

Darla Neal

Head Clerk

Business Filing & Registration

RECEIVED
SEP 8 - 2010
USGVMWD

APPENDIX B.2 Notice of Public Hearing Posted in the Newspaper, Website and Mailed to All Agencies, Cities and County

Ad # Filmed 5/19/11 at 16:47:16 by S814

Page 1

UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT 11310 Valley Blvd. El Monte, CA 91731 (626) 443-2297 fax (626) 443-0617 www.usgvmwd.org

NOTICE OF PUBLIC HEARING

Please take notice that:

USGVMWD will hold a public hearing to review and adopt their respective 2010 Urban Water Management Plan at 6:30 p.m. on June 7, 2011, in the office of the Upper San Gabriel Valley Municipal Water District, 11310 Valley Boulevard, El Monte, California. The Final Draft Plan is available at the Upper District's Website www.usgymwd.org.

Shane Chapman General Manager Upper San Gabriel Valley Municipal Water District

Published: May 24, 31, 2011 San Gabriel Valley Tribune Ad#210526

UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRIC



Home

Upper District

Calendars

Water Reliability

Water Conservation and Education

Upper District Dialogue

Dialogue Connections

WATER RELIABILITY

■ Water Quality & Supply

■ Water Policy

■ Recycled Water

■ Urban Water Management

2010 Urban Water Management Plan

Upper San Gabriel Valley Municipal Water District will hold a PUBLIC HEARING on June 7, 2011 at 6:30 P.M. for the purpose of adopting its 2010 draft Urban Water Management Plan.

The 2010 draft Urban Water Management Plan was prepared pursuant to the "Urban Water Management Planning Act", California Water Code, Sections 10608 through 10656. The State Department of Water Resources requires every urban water supplier to prepare and adopt an Urban Water Management Plan and periodically update that plan at least once every five years on or before December 31, in years ending in five

Information regarding Upper San Gabriel Valley Municipal Water District's PUBLIC HEARING is as follows:

Date: June 7, 2011

Time: 6:30 P.M.

Place: 11310 Valley Blvd., El Monte CA 91731

Upper San Gabriel Valley Municipal Water District invites all interested parties and groups to attend and present their views and comments. A copy of the draft 2010 Urban Water Management Plan can be downloaded by clicking on the links below. To obtain a printed copy of the 2010 draft Urban Water Management Plan prior to the PUBLIC HEARING, contact Christy Hawkins at christy@usgvmwd.org. If you cannot attend the PUBLIC HEARING, you may submit written comments by 4:00 P.M. on June 7, 2011 to Christy Hawkins at christy@usgvmwd.org.





May 4, 2011

TO:

Potentially Interested Agency

FROM:

Upper San Gabriel Valley Municipal Water District

SUBJECT:

Urban Water Management Plan 2010 Update

The Urban Water Management Planning Act requires every "urban water supplier¹" to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Upper San Gabriel Valley Municipal Water District (Upper District) has prepared a final draft of its 2010 UWMP, which is available at its website www.usgvmwd.org.

As an urban water supplier, Upper District is required pursuant to Section 10620(d)(2) of the UWMP Act to coordinate with water management agencies, relevant public agencies and other water suppliers on the preparation of the UWMP. Upper District invites you to submit written comments to the final draft of Upper District's 2010 UWMP on or prior to the Public Hearing which will be held on June 7, 2011 at 6:30 p.m. at the Upper District office in El Monte.

¹Section 10617 of the Urban Water Management Planning Act states, ""Urban Water Supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.

Adams Ranch Mutual Water Company Mr. Dominic T. Cimarusti 9343 Pitkin Street Rosemead, CA 91770 (626) 625-8931 mcimarus@pacbell.net

Amarillo Mutual Water Company Mr. John Holzinger Ms. Blanche Vizzini 3404 North Burton Ave. Rosemead, CA (626) 280-0660 Amarillo1920@sbcglobal.net

City of Arcadia Mr. Tom Tait P.O. Box 60021 11800 Gold Ring Road Arcadia, CA 91006-6021 (626) 256-6551 ttait@ci.arcadia.ca.us

City of Azusa Light & Water Mr. Chet Anderson 729 N. Azusa Ave. Azusa, CA 91702 (626) 812-5219 canderson@ci.azusa.ca.us

California American Water Company (Duarte System and San Marino) Mr. Joe Marcinko 2020 Huntington Drive San Marino, CA 91108 imarcinko@amwater.com

California Domestic Water Company Mr. Jim Byerrum P.O. Box 1338 Whittier, CA 90609 (562) 947-3811 jbyerrum@cdwc.com

Champion Mutual Water Company Mr. Bryan Hellein P.O. Box 4093 El Monte, CA 91734 bhellein@ci.el-monte.ca.us City of Covina
Mr. Paul Hertz
125 East College Street
Covina, CA 91723
(626) 858-7294
phertz@ci.covina.ca.us

Covina Irrigating Company Mr. David de Jesus 125 East College Street Covina, CA 92428 (626) 332-1502 daviddi@cich2o.com

Del Rio Mutual Water Company Mr. Dario Herrera 12417 Clinton El Monte, CA 91734 (626) 350-0381

East Pasadena Water Co., Ltd. Mr. Larry Morales 3725 East Mountainview Ave. Pasadena, CA 91107 (626) 793-6189 wayne@epwater.com

City of El Monte Mr. Bryan Hellein 3527 Santa Anita Ave. El Monte, CA 91731 (626) 580-2250 bhellein@ci.el-monte.ca.us

City of Glendora Mr. Steve Patton 116 E. Foothill Blvd. Glendora, CA 91741 (626) 914-8245 spatton@ci.glendora.ca.us

Hemlock Mutual Water Company Mr. Robert McClung 12066 Celine Street El Monte, CA 91732 (626) 448-7100

Industry Public Works
Mr. Greg Galindo
C/O La Puente Water District
112 North First Street
La Puente, CA 91744
626) 330-2126
ggalindo.lpvcwd@verizon.net

La Puente Valley County Water District Mr. Greg Galindo 112 N. 1st St. La Puente, CA 91744 (626) 330-2126 ggalindo.lpvcwd@verizon.net

City of Monrovia Mr. Mark Carney 415 South Ivy Avenue Monrovia, CA 91016 (626) 256-8211 mcarney@ci.monrovia.ca.us

Rurban Homes Mutual Water Company Mr. Bryan Hellein 5044 No. Cogswell El Monte, CA 91732 (626) 448-5272 bhellein@ci.el-monte.ca.us

San Gabriel County Water District Mr. Chuck Shaw P.O. Box 2227 San Gabriel, CA 91778-2227 (626) 287-0341 chuck0415@mindspring.com

San Gabriel Valley Water Company Mr. Dan Arrighi P.O. Box 6010 El Monte, CA 91734 (626) 448-6183 darrighi@sgvwater.com

City of South Pasadena Mr. Anteneh Tesfaye 825 Mission Street South Pasadena, CA 91030 (626) 403-7376 ATesfaye@ci.southpasadena.ca.us

Golden State Water Company San Gabriel District Mr. Ben Lewis 401 South San Dimas Canyon Road San Dimas, CA 91773 (909) 592-4271 x 106 benjamin.lewis@gswater.com Sterling Mutual Water Company Ms. Joy Ann Burt 11922 Lambert Ave. El Monte, CA 91732 (626) 350-9314

Suburban Water Systems Mr. Richard Rich 1211 East Center Court Drive Covina, CA 91724 (626) 543-2551 RRich@swwc.com

Sunny Slope Water Company Mr. Ken Tcheng 1040 El Campo Drive Pasadena, CA 91107 (626) 287-5238 sswc01@sbcglobal.net

Valencia Heights Water Company Mr. Dave Michalko 3009 Virginia Ave. West Covina, CA 91791 (626) 332-8935 vhwc@aol.com

Valley County Water District Mr. Brian Dickinson 14521 E. Ramona Blvd. Baldwin Park, CA 91706 (626) 338-7301 bdickinson@vcwd.org

Valley View Mutual Water
Company
Ms. Sukie Madrid
13730 E. Los Angeles St.
Baldwin Park, CA 91706
(626) 960-2759
Valleyviewmutualwaterco@verizon.net

City of Whittier
Mr. Ken Kittridge
13230 Penn Street
Whittier, CA 90601
(562) 464-3510
kkittridge@cityofwhittier.org

Main San Gabriel Basin Watermaster Ms. Carol Williams 725 N. Azusa Avenue Azusa, CA 91702 (626) 815-1300 carol@watermaster.org

San Gabriel River Watermaster 101 N. Brand Blvd, Ste 1780 Glendale, CA 91203 (818) 552-6400

County of Los Angeles Attn: Registrar – Recorder / County Clerk 12400 Imperial Highway Norwalk, CA 90650

City of Baldwin Park Attn: City Clerk 1440 E. Pacific Ave. Baldwin Park, CA 91706

City of Bradbury Attn: City Clerk 600 Winston Ave. Bradbury, CA 91010

City of Duarte Attn: City Clerk 1600 Huntington Drive Duarte, CA 91010

City of Industry Attn: City Clerk 15625 Stafford St #100 Industry, CA 91744

City of Irwindale Attn: City Clerk 5050 North Irwindale Ave. Irwindale, CA 91706

City of La Puente Attn: City Clerk 15900 E. Main Street La Puente, CA 91744

City of Rosemead Attn: City Clerk 8838 E. Valley Blvd. Rosemead, CA 91770 City of San Gabriel Attn: City Clerk 425 S. Mission Drive San Gabriel, CA 91776

City of South El Monte Attn: City Clerk 1415 Santa Anita Ave. South El Monte, CA 91733

City of Temple City Attn: City Clerk 9701 Las Tunas Drive Temple City, CA 91780

City of West Covina Attn: City Clerk 1444 W. Garvey West Covina, CA 91790

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APPENDIX B.3 Comments and Responses from the Public Hearing

Responses to Sanitation District's comments to Upper District's Draft 2010 UWMP

- Comment 1 Page iv (5 of 118), Table of Contents; and 97 of 118, Table 9, Title, Title Heading, and footnotes: Change "Reclaimed Water" to "Recycled Water".
- Response 1 Change made.
- Comment 2 Page 3-4 (20 of 118), §3.1.2 Recycled Water, 1st paragraph, last sentence; 2nd paragraph, last sentence; and Page 90 of 118, Table 2: The recycled water values of 5,952.9 and 78,803.4 should be 7,863.4 and 77,920.6 for WNWRP and SJCWRP, respectively, and delete the "1/2010 is represented by water year 2008-09". In addition, for Table 2, Change: "Source: Sanitation Districts of Los Angeles County "Status Report on Recycled Water" Annual Reports" to "Sanitation Districts of Los Angeles County".
- Response 2 Change made.
- Comment 3 Page 6-2 (58 of 118), §6.6.2 Upper District's Direct Use Recycled Water Program, 1st paragraph, 2nd sentence: Replace ... "supplies about 4,400 acre-feet of recycled water"... to "supplies about 1,509 acre-feet of recycled water. Another 3,772 AF of recycled water was used in the service area, but delivered by other agencies."
- Response 3 Change made.
- Comment 4 Page 8-2 (72 of 118), 2nd paragraph, 2nd sentence: Replace "LACSD" with "CSD" to be consistent with earlier references to the Sanitation Districts. Similarly, make same revisions at: Page 8-2 (72 of 118), 3rd paragraph, 1st sentence; and Page 8-6 (76 of 118), §8.4, 1st paragraph, 1st sentence, 1st word.
- Response 4 Change made.
- Comment 5 Page 8-9 (79 of 118), §8.6.2 Recycled Water Sales, 1st paragraph, 1st sentence: Change "5,700" to "1,509" and Add something like: "Another 3,772 acre-feet of recycled water is supplied by other purveyors within the Upper District's service area for direct use (irrigation)."
- Response 5 Change made.

From: Ton, Donald [mailto:dton@lacsd.org]
Sent: Monday, June 06, 2011 3:29 PM

To: Christy Hawkins **Cc:** Hartling, Earle

Subject: Sanitation Districts' Comments on Upper San Gabriel Valley Municipal Water District's Final

Draft 2010 Urban Water Management Plan

Hi Christy,

Sanitation Districts' staff reviewed portions of USGVMWD's Draft 2010 UWMP that pertains to the Sanitation Districts' wastewater and recycled water. We have the following comments/suggestions:

- o Page iv (5 of 118), Table of Contents; and 97 of 118, Table 9, Title, Title Heading, and footnotes: Change "Reclaimed Water" to "Recycled Water".
- o Page 3-4 (20 of 118), §3.1.2 Recycled Water, 1st paragraph, last sentence; 2nd paragraph, last sentence; and Page 90 of 118, Table 2: The recycled water values of 5,952.9 and 78,803.4 should be 7,863.4 and 77,920.6 for WNWRP and SJCWRP, respectively, and delete the "1/ 2010 is represented by water year 2008-09". In addition, for Table 2, Change: "Source: Sanitation Districts of Los Angeles County "Status Report on Recycled Water" Annual Reports" to "Sanitation Districts of Los Angeles County". I suggest rounding the all numbers to the nearest 100 because the meters are not accurate to the tenths of an acre-foot (I typically expect a 5% error in meter readings when operating within its flow range).
- Page 6-2 (58 of 118), §6.6.2 Upper District's Direct Use Recycled Water Program, 1st paragraph, 2nd sentence: Replace ..."supplies about 4,400 acre-feet of recycled water"... to "supplies about 1,509 acre-feet of recycled water. Another 3,772 AF of recycled water was used in the service area, but delivered by other agencies."
- Page 8-2 (72 of 118), 2nd paragraph, 2nd sentence: Replace "LACSD" with "CSD" to be consistent with earlier references to the Sanitation Districts. Similarly, make same revisions at: Page 8-2 (72 of 118), 3rd paragraph, 1st sentence; and Page 8-6 (76 of 118), §8.4, 1st paragraph, 1st sentence, 1st word.
- Page 8-9 (79 of 118), §8.6.2 Recycled Water Sales, 1st paragraph, 1st sentence:
 Change "5,700" to "1,509" and Add something like: "Another 3,772 acre-feet of recycled water is supplied by other purveyors within the Upper District's service area for direct use (irrigation)."

Let me know if you have any questions.

Thank You,

Donald Ton, PE Sanitation Districts of Los Angeles County 1955 Workman Mill Road Whittier, CA 90607 P: (562) 908-4288 Ext. 2810 APPENDIX B.4 Adopted UWMP

1	STATE OF CALIFORNIA)
2	COUNTY OF LOS ANGELES (
3	UPPER SAN GABRIEL VALLEY
4	MUNICIPAL WATER DISTRICT)
5	
6	I, Shane Chapman, General Manager of Upper San Gabriel Valley Municipal
7	Water District, do hereby certify that at the regular meeting of the Board of Directors of
8	said District held on June 7, 2011, the following action was taken:
9	"Director Fellow moved to approve staff's recommendation that the
10	Board of Directors adopt the Upper District's 2010 Urban Water Management Plan as presented and instruct staff to file copies of
11	the adopted plan with: State of California Department of Water Resources; California State Library; and, cities within the Upper
12	District service area. Director Chavez seconded the motion. The
13	motion was approved 4-1."
14	This action was taken in accordance with provisions of the judgment in Los
15	Angeles Superior Court Case #924128, "Upper San Gabriel Valley Municipal Water
16	District, plaintiff, vs. City of Alhambra, et al, defendants."
17	0 - 0
18	Shane Chapman
19	General Manager
20	Dated this 5 th day of
21	July, 2011, at El Monte, California
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23	
24	(SEAL)
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APPENDIX B.5 Letters Sending the Final 2010 UWMP to DWR, State Library and cities/counties



861 Village Oaks Drive, Suite 100 • Covina , California 91724 Phone: (626) 967-6202 • FAX: (626) 331-7065 • Web site: www.stetsonengineers.com

Northern California • Southern California • New Mexico • Arizona • Nevada • Colorado

01 Reply to: Covina

July 6, 2011

Department of Water Resources
Statewide Integrated Water Management
Water Use Efficiency Branch
P.O. Box 942836
Sacramento, California 94236-0001
Attn: Coordinator, Urban Water Management Plans

Subject: Upper San Gabriel Valley Municipal Water District

2010 Urban Water Management Plan

Dear Coordinator, Urban Water Management Plans:

Upper San Gabriel Valley Municipal Water District (Upper District) has authorized this office to provide you with Upper District's 2010 Urban Water Management Plan as a hardcopy and as a CD electronic copy in accordance with Section 10644 of the California Water Code. As part of the Urban Water Management Plan process, Upper District took the following actions:

- Notified Cities within its service area of the preparation of its 2010 Urban Water Management Plan Update and encouraged participation and the submittal of comments
- Gave 60-day notice, prior to a public hearing, to any City or County within which the supplier provides water supplies notifying that Upper District is reviewing the Plan and is considering changes according to Assembly Bill 1376
- Made the plan available to the public for review 2 weeks prior to holding a public hearing on June 7, 2011
- Adopted the draft Urban Water Management Plan as its 2010 Urban Water Management Plan on June 7, 2011
- Submitted its Urban Water Management Plan to all Cities and County within its service area.



Coordinator, Urban Water Management Plans July 6, 2011 Page 2

Please, feel free to contact Mr. Shane Chapman of Upper San Gabriel Valley Municipal Water District at (626) 443-2297 or me at (626) 967-6202 should you have any questions.

Sincerely,

Kevin R. Smead, P.E. Stetson Engineers Inc.

cc: Mr. Shane Chapman, Upper San Gabriel Valley Municipal Water District



861 Village Oaks Drive, Suite 100 • Covina , California 91724 Phone: (626) 967-6202 • FAX: (626) 331-7065 • Web site: www.stetsonengineers.com

Northern California • Southern California • New Mexico • Arizona • Nevada • Colorado

Reply to:

Covina

01

July 6, 2011

California State Library P.O. Box 942837 Sacramento, CA 94237-0001

Subject:

Upper San Gabriel Valley Municipal Water District

2010 Urban Water Management Plan

California State Library:

Upper San Gabriel Valley Municipal Water District (Upper District) has authorized this office to provide the California State Library with a copy of Upper District's 2010 Urban Water Management Plan in accordance with Section 10644 of the California Water Code.

Please, feel free to contact Mr. Shane Chapman of Upper San Gabriel Valley Municipal Water District at (626) 443-2297 or me at (626) 967-6202 should you have any questions.

Sincerely,

Kevin R. Smead, P.E. Stetson Engineers Inc.

cc: Mr. Shane Chapman, Upper San Gabriel Valley Municipal Water District

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861 Village Oaks Drive, Suite 100 • Covina , California 91724 Phone: (626) 967-6202 • FAX: (626) 331-7065 • Web site: www.stetsonengineers.com

Northern California • Southern California • New Mexico • Arizona • Nevada • Colorado

Reply to:

Covina

MEMORANDUM

TO: POTENTIALLY INTERESTED AGENCY

FROM: UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT

SUBJECT: FINAL 2010 URBAN WATER MANAGEMENT PLAN

JOB NO.: 01

DATE: JULY 6, 2011

Upper San Gabriel Valley Municipal Water District (Upper District) has adopted its 2010 Urban Water Management Plan (UWMP) on June 7, 2011. Upper District has requested Stetson Engineers Inc. to provide you with the enclosed electronic Final 2010 UWMP for your files. Please let the Upper District office know if you would like a hard copy in addition to the electronic copy.

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City of Arcadia Mr. Tom Tait P.O. Box 60021 11800 Gold Ring Road Arcadia, CA 91006-6021 (626) 256-6551 ttait@ci.arcadia.ca.us

City of Azusa Light & Water Mr. Chet Anderson 729 N. Azusa Ave. Azusa, CA 91702 (626) 812-5219 canderson@ci.azusa.ca.us

City of Covina Mr. Paul Hertz 125 East College Street Covina, CA 91723 (626) 858-7294 phertz@ci.covina.ca.us

City of El Monte Mr. Bryan Hellein 3527 Santa Anita Ave. El Monte, CA 91731 (626) 580-2250 bhellein@ci.el-monte.ca.us

City of Glendora
Mr. Steve Patton
116 E. Foothill Blvd.
Glendora, CA 91741
(626) 914-8245
spatton@ci.glendora.ca.us

City of Monrovia Mr. Mark Carney 415 South Ivy Avenue Monrovia, CA 91016 (626) 256-8211 mcarney@ci.monrovia.ca.us

City of South Pasadena Mr. Anteneh Tesfaye 825 Mission Street South Pasadena, CA 91030 (626) 403-7376 ATesfaye@ci.southpasadena.ca.us City of Whittier
Mr. Ken Kittridge
13230 Penn Street
Whittier, CA 90601
(562) 464-3510
kkittridge@cityofwhittier.org

County of Los Angeles Attn: Registrar – Recorder / County Clerk 12400 Imperial Highway Norwalk, CA 90650

City of Baldwin Park Attn: City Clerk 1440 E. Pacific Ave. Baldwin Park, CA 91706

City of Bradbury Attn: City Clerk 600 Winston Ave. Bradbury, CA 91010

City of Duarte Attn: City Clerk 1600 Huntington Drive Duarte, CA 91010

City of Industry Attn: City Clerk 15625 Stafford St #100 Industry, CA 91744

City of Irwindale Attn: City Clerk 5050 North Irwindale Ave. Irwindale, CA 91706

City of La Puente Attn: City Clerk 15900 E. Main Street La Puente, CA 91744

City of Rosemead Attn: City Clerk 8838 E. Valley Blvd. Rosemead, CA 91770

City of San Gabriel Attn: City Clerk 425 S. Mission Drive San Gabriel, CA 91776 City of South El Monte Attn: City Clerk 1415 Santa Anita Ave. South El Monte, CA 91733

City of Temple City Attn: City Clerk 9701 Las Tunas Drive Temple City, CA 91780

City of West Covina Attn: City Clerk 1444 W. Garvey West Covina, CA 91790

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UWMP\notifications\Contact List cities
and county.doc

APPENDIX C Long Beach Judgment

Superior Court of the State of California For the County of Los Angeles

BOARD OF WATER COMMISSIONERS OF THE CITY OF LONG BEACH, et al.,

Plaintiffs

VS.

San Gabriel Valley Water Company, et al.,

Defendants

No. 722647

SETTLEMENT DOCUMENTS

STIPULATION FOR JUDGMENT

JUDGMENT
MAP OF WHITTIER NARROWS
ENGINEERING APPENDIX
REIMBURSEMENT CONTRACT

Approved by Joint Negotiating Committees July 6, 1964.

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                     SUPERIOR COURT OF THE STATE OF CALIFORNIA
  9
                            FOR THE COUNTY OF LOS ANGELES
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     BOARD OF WATER COMMISSIONERS OF THE CITY
     OF LONG BEACH, a municipal corporation;
     CENTRAL BASIN MUNICIPAL WATER DISTRICT,
     a municipal water district; and CITY OF
     COMPTON, a municipal corporation,
14
                                          Plaintiffs,
15
                                                                       NO. 722,647
                       VS.
16
     SAN GABRIEL VALLEY WATER COMPANY, a cor-
     poration; AZUSA AGRICULTURAL WATER
     COMPANY, a corporation; AZUSA VALLEY
     WATER COMPANY, a corporation; CALIFORNIA
    WATER & TELEPHONE COMPANY, a corporation; THE COLUMBIA LAND AND WATER COMPANY, a
                                                                     STIPULATION FOR
corporation; COVINA IRRIGATING COMPANY, a corporation; CROSS WATER COMPANY, a corporation; DIARTE WATER COMPANY, a corporation; DIARTE WATER COMPANY a corporation; DIARTE WATER COMPANY
                                                                         JUDGMENT
    poration; DUARTE WATER COMPANY, a corpora-
     tion; EAST PASADENA WATER CO. LTD., a
corporation; GLENDORA IRRIGATING COMPANY,
    a corporation; SAN DIMAS WATER COMPANY, a corporation; SOUTHERN CALIFORNIA WATER
    COMPANY, a corporation; SUBURBAN WATER
    SYSTEMS, a corporation; SUNNY SLOPE WATER
    CO., a corporation; VALLECITO WATER CO., a corporation; CITY OF ALHAMBRA, a munici-
24
pal corporation; CITY OF ARCADIA, a municipal corporation; CITY OF AZUSA, a municipal corporation; CITY OF COVINA, a
    municipal corporation; CITY OF EL MONTE,
27 a municipal corporation; CITY OF GLENDORA,
  a municipal corporation; CITY OF MONROVIA, a municipal corporation; CITY OF MONTEREY
    PARK, a municipal corporation; CITY OF
    SOUTH PASADENA, a municipal corporation;
    BALDWIN PARK COUNTY WATER DISTRICT, a
    county water district; and SAN GABRIEL
    COUNTY WATER DISTRICT, a county water
    district,
31
                                          Defendants,
    UPPER SAN GABRIEL VALLEY MUNICIPAL WATER
```

DISTRICT, a municipal water district, and CALIFORNIA DOMESTIC WATER COMPANY, a corporation,

Intervenors.

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Plaintiffs Central Basin Municipal Water District, a municipal water district (herein sometimes referred to as Central Municipal); City of Long Beach, a municipal corporation, acting by and through the Board of Water Commissioners of the City of Long Beach; and City of Compton, a municipal corporation; and defendants City of Alhambra, a municipal corporation; City of Arcadia, a municipal corporation; City of Azusa, a municipal corporation; Azusa Agricultural Water Company, a corporation, sued herein as DOE 1; Azusa Valley Water Company, a corporation, for itself and as successor by merger to Azusa Irrigating Company, a corporation; Baldwin Park County Water District, a county water district; California Water and Telephone Company, a corporation; Columbia Land and Water Company, a corporation; City of Covina, a municipal corporation; Covina Irrigating Company, a corporation; Cross Water Company, a corporation, sued herein as DOE 2; Duarte Water Company (formerly Duarte Domestic Water Company), a corporation; East Pasadena Water Company, Ltd., a corporation, for itself and as successor by merger to California-Michigan Land and Water Company, a corporation; City of El Monte, a municipal corporation; City of Glendora, a municipal corporation; Glendora Irrigating Company, a corporation; City of Monrovia, a municipal corporation; City of Monterey Park, a municipal corporation; San Dimas Water Company, a corporation, sued herein as DOE 3; San Gabriel County Water District, a county water district; San Gabriel Valley Water Company, a corporation; Southern California Water Company, a corporation; City of South Pasadena, a municipal corporation; Suburban Water Systems, a corporation; Sunny Slope Water Company, a corporation; and Vallecito Water Company, a corporation; and

intervening defendant Upper San Gabriel Valley Municipal Water District, a municipal water district (herein sometimes referred to as Upper District); and intervening defendant California Domestic Water Company, a corporation; stipulate and agree as follows:

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- A Judgment in the form attached hereto as Exhibit I may be made and entered by the Court in the above-entitled action.
- 2. The following facts, considerations and objectives, among others, provide the basis for this Stipulation for Judgment:
 - (a) By their complaint plaintiffs seek a determination of the rights of the defendants, other than Upper District, in and to the waters of the San Gabriel River System and further seek to restrain defendants, other than Upper District, from an alleged interference with the rights of plaintiffs and persons represented by Central Municipal in and to said waters.
 - (b) At the present time, and for some time prior to the commencement of this action, the water supply of the San Gabriel River System has been inadequate to supply the diversions and extractions of both plaintiffs and defendants other than Central Municipal and Upper District but including the persons represented by Central Municipal and by Upper District, and as a result said diversions and extractions have exceeded, and still exceed, the natural replenishment of the water supply of the San Gabriel River System.
 - (c) The parties recognize and agree that the natural outflow from the San Gabriel Valley

to the Lower Area as defined in the Judgment has varied, and will vary from year to year, depending on the amount of precedent rainfall and other conditions.

- (d) The parties recognize and agree that there is a need for a declaration of rights and a physical solution for the problems resulting from the inadequate and varying water supplies of the San Gabriel River System.
- (e) The parties agree that the physical solution contained in said Judgment will bring about a fair division of the water of the San Gabriel River System as between plaintiffs and defendants other than Central Municipal and Upper District but including the persons represented by Central Municipal and by Upper District.
- (f) The parties recognize that it may be necessary for defendants or some of them to use supplemental water in order to comply with the obligations imposed under said physical solution.
- member unit of The Metropolitan Water District of Southern California, which will be supplied with water from sources in northern California under an existing contract with the State of California. Certain of the defendants not within the area of defendant Upper District are within the area of San Gabriel Valley Municipal Water District, which district also has contracted with the State of California for delivery of water from sources in northern California. It is anticipated that the

-4-

importation of this water will augment the natural supply of ground water within Upper Area as defined in the Judgment. Defendant Upper District intends to replenish the San Gabriel Valley with supplemental supplies.

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- 3. The parties hereto hereby waive any and all Findings of Fact, Conclusions of Law, and any and all notice of the making or entry herein of the attached form of Judgment, and all rights of appeal, if any, from such Judgment.
- 4. Plaintiffs and defendants agree that during the period prior to entry of the attached form of Judgment, they will cooperate in endeavoring to collect such information as the Watermaster would obtain if the attached form of Judgment had been entered and the Watermaster had been appointed by the Court pursuant to paragraph 6 of the Judgment, which information is herein referred to as 'said information." To that end, the parties hereto hereby agree that promptly following the complete execution of this stipulation by all parties, Upper District and Central Municipal shall each notify the other in writing as to the identity of the person who it expects will be nominated as the representative of Upper Area Parties or Lower Area Parties, as the case may be, under paragraph 6 of the Judgment. receiving such notice, Upper District and Central Municipal shall each instruct its designated nominee that until the attached form of Judgment is entered and the Watermaster has been appointed pursuant to paragraph 6 of the Judgment he shall in cooperation with the other designated nominee do all things reasonably necessary to obtain such of said information as is available from the parties hereto or any public agency.
- 5. Judgment shall not be rendered pursuant hereto unless and until the execution of this stipulation by Central Basin Municipal Water District and by Upper San Gabriel Valley

1	Municipal Water District shall have been validated by a decree
2	or decrees rendered in a proceeding or proceedings instituted
3	in a court of competent jurisdiction of the State of California,
4	and either such decree or decrees shall have become final or
5	both of said Districts shall have further stipulated that said
6	Judgment shall be rendered.
7	6. This stipulation may be executed in counterparts
8	(each counterpart being an exact copy or duplicate of the
9	original) and all counterparts collectively shall be considered
10	as constituting one complete Stipulation for Judgment.
11	DATED:, 1964.
12	
13 14 15 16	Attorneys (for the respective party listed opposite and to the right of the respective attorneys listed below) Leonard Putnam Signature of Stipulating Party and Its Designation of Mailing Address Board of Water Commissioners of
17 18	City Attorney the City of Long Beach Clifford E. Hayes Principal Deputy City Attorney By City of Long Beach
19	Its President
20	Ву
22	Burris & Lagerlof Stanley C. Lagerlof 1800 East Wardlow Road
23	Stanley C. Lagerlof 1800 East Wardlow Road H. Jess Senecal Long Beach 7, California Jack T. Swafford
24	
25	Ву
26	
27	
28	

2	Stanley C. Lagerlof H. Jess Senecal Jack T. Swafford	Central Basin Municipal Water District
4		Ву
5		Its President
6		Ву
7		Its Secretary
8		7439 East Florence Avenue Downey, California
9		,
10		
11	Lloyd A. Bulloch City Attorney	City of Compton
12	City of Compton	Ву
13		Its Mayor
14		205 South Willowbrook Avenue
15	Burris & Lagerlof Stanley C. Lagerlof	Compton, California
16	H. Jess Senecal Jack T. Swafford	
17		
18	Ву	
19		
20		
21	Don D. Bercu City Attorney	City of Alhambra
22	City of Alhambra	
23		Ву
24		Its Mayor
25	Taylor & Smith	City Hall lll South First Street
26	Ву	Alhambra, California
27		
28		
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1		City of Arcadia
2	City Attorney City of Arcadia	Ву
3		Its Mayor
4		City Hall
5	Surr & Hellyer	Arcadia, California
6	Ву	
7	Clayson, Stark, Rothrock	
8	& Mann	
9	Ву	
10		
11	Harry C. Williams	City of Azusa
12	City Attorney City of Azusa	Ву
13		Its Mayor
14		City Hall
15	Taylor & Smith	213 East Foothill Boulevard Azusa, California
16	Ву	
17		
18	Taylor & Smith	Azusa Agricultural Water Company
19	Ву	Ву
20		Its President
21		Ву
		Its Secretary
22		18352 East Foothill Boulevard
23		Azusa, California
24	Surr & Hellyer	Azusa Valley Water Company
25	Ву	Ву
26		Its President
27	Clayson, Stark, Rothrock & Mann	Ву
28	Ву	
29	~ /	P. O. Box 'W''
30		Azusa, California
31		

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1	Surr & Hellyer	Baldwin Park County Water District
2	Ву	Ву
3 4	Clayson, Stark, Rothrock & Mann	Its President By
5	Ву	Its Secretary
6		14521 East Ramona Boulevard
7		Baldwin Park, California
8		
9	Bacigalupi, Elkus & Salinger	California Water & Telephone Company
10	Ву	Ву
11		Its President
12	Surr & Hellyer	Ву
13	Ву	Its Secretary
14 15	Clayson, Stark, Rothrock & Mann	300 Montgomery Street San Francisco, California
16	Ву	Jan 12ano1500, dalliolila
17	23	
18		
19	Allard, Shelton & O'Connor	Columbia Land & Water Company
20	Ву	Ву
21		Its President
22	Surr & Hellyer	Ву
23	Ву	Its Secretary
24	Clayson, Stark, Rothrock	
25	& Mann	P. O. Box 296 San Dimas, California
26	Ву	
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1	Allard, Shelton & O'Connor	City of Covina
2	Ву	Ву
3 4 5	Surr & Hellyer	Its Mayor City Hall Covina, California
6 7 8	Clayson, Stark, Rothrock & Mann By	
9	Kerckhoff & Kerckhoff	Covina Irrigating Company
10	Ву	Ву
11	Surr & Hellyer	Its President
12	Ву	Ву
13	Clayson, Stark, Rothrock & Mann	Its Secretary
14 15	Ву	146 East College Street Covina, California
16	George C. Gillette	Cross Water Company
17		Ву
18	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Its President
19		Ву
20		Its Secretary
21		15825 East Main Street
22		La Puente, California
23	Henry W. Shatford Shatford & Shatford	Duarte Water Company
24		Ву
25	Ву	Its President
26	Surr & Hellyer	Ву
27	Ву	Its Secretary
28		1101 South Oak Avenue
29	Clayson, Stark, Rothrock & Mann	Duarte, California
30	Ву	
31	- IA ==	

1	Gray & Maddox	East Pasadena Water Company, Ltd.
2	Ву	Ву
3	Surr & Hellyer	Its President
5	Ву	Its Secretary
6 7 8	Clayson, Stark, Rothrock & Mann By	
9		
10 11	James A. Nicklin City Attorney City of El Monte	City of El Monte
12		Its Mayor
13	Surr & Hellyer	City Hall El Monte, California
14	Ву	
15		
16	Clayson, Stark, Rothrock & Mann	
17 18	Ву	
19		
20		
21	Leonard A. Shelton	City of Glendora
22	City Attorney City of Glendora	Ву
23		Its Mayor
24		City Hall
25	Surr & Hellyer	Glendora, California
26	Ву	
27	Clayson, Stark, Rothrock	
28	& Mann	
29	Ву	
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1	Allard, Shelton & O'Connor	Glendora Irrigating Company
2	Ву	Ву
3 4 5	Surr & Hellyer	Its President By Its Secretary
6 7 8	Clayson, Stark, Rothrock & Mann	224 North Michigan Avenue Glendora, California
9	ବା	
11 12 13 14 15 16 17 18	Homer H. Bell City Attorney City of Monrovia Surr & Hellyer By Clayson, Stark, Rothrock & Mann By	City of Monrovia By Its Mayor City Hall Monrovia, California
21 22 23 24 25	Charles R. Martin City Attorney City of Monterey Park Taylor & Smith	City of Monterey Park By Its Mayor City Hall 320 West Newmark Avenue
27	Ву	Monterey Park, California

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1	Allard, Shelton & O'Connor	San Dimas Water Company
2	ву	Ву
3	g., 6 77 11	Its President
4	Surr & Hellyer	Ву
5	Ву	Its Secretary
8	Clayson, Stark, Rothrock	P. O. Box 181
7	& Mann	San Dimas, California
8	Ву	
9		
10	Surr & Hellyer	San Gabriel County Water District
11	Ву	Ву
12		Its President
13	Clayson, Stark, Rothrock & Mann	Ву
14	Ву	Its Secretary
15		8229 East Las Tunas Drive
16		San Gabriel, California
17		
18	J. E. Skelton	San Gabriel Valley Water Company
19		Ву
20	G	Its President
21	Surr & Hellyer	Ву
22	Ву	Its Secretary
23	Clayson, Stark, Rothrock	11142 Garvey Avenue
24	& Mann	El Monte, California
25	Ву	
26		
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1	O'Melveny & Myers	Southern California Water Company
2	Ву	Ву
3 4	Surr & Hellyer	Its President
5		Its Secretary
6 7	Clayson, Stark, Rothrock & Mann	11911 South Vermont Avenue Los Angeles 44, California
8	Ву	£
9	Charles R. Martin	City of South Pasadena
11	City Attorney City of South Pasadena	Ву
12		Its Mayor
13	Surr & Hellyer	825 Mission Street South Pasadena, California
14	Ву	
15 16	Clayson, Stark, Rothrock & Mann	
17	Ву	
18		
19	Frank E. Gray	Suburban Water Systems
20		Ву
21	Surr & Hellyer	Its President
22	Ву	Ву
23		Its Secretary
24	Clayson, Stark, Rothrock & Mann	16340 East Maplegrove Street La Puente, California
25	Ву	
26	Hahn & Hahn	
27		Sunny Slope Water Company
28	Ву	Ву
29		ItsPresident
30		Ву
31		Its Secretary
32		1040 El Campo Drive Pasadena, California

1	Surr & Hellyer	Vallecito Water Company
2	Ву	Ву
3	Clayson, Stark, Rothrock	Its President
4	& Mann	Ву
5	Ву	Its Secretary
8		749 South Ninth Avenue
7		City of Industry, California
8		
9	Stearns, Gross and Moore	•
10	Ву	
11		Its President
12		Така Санавана
14		Its Secretary
15		P. O. Box 1026, Perry Annex Whittier, California
16		
17	Ralph B. Helm	Upper San Gabriel Valley
18		Municipal Water District
19		Ву
20		Its President
21		Ву
22		Its Secretary
23		11229 East Valley Boulevard El Monte, California
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SUPERIOR COURT OF THE STATE OF CALIFORNIA FOR THE COUNTY OF LOS ANGELES

BOARD OF WATER COMMISSIONERS OF THE CITY OF LONG BEACH, a municipal corporation; CENTRAL BASIN MUNICIPAL WATER DISTRICT, a municipal water district; and CITY OF COMPTON, a municipal corporation,

Plaintiffs,

VS,

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NO. 722,647

SAN GABRIEL VALLEY WATER COMPANY, a corporation; AZUSA AGRICULTURAL WATER COMPANY, a corporation; AZUSA VALLEY WATER COMPANY, a corporation; CALIFORNIA WATER & TELEPHONE COMPANY, a corporation; THE COLUMBIA LAND AND WATER COMPANY, a corporation; COVINA IRRIGATING COMPANY, a corporation; CROSS WATER COMPANY, a corporation; DUARTE WATER COMPANY, a corporation; EAST PASADENA WATER CO. LTD., corporation; GLENDORA IRRIGATING COMPANY, a corporation; SAN DIMAS WATER COMPANY, a corporation; SOUTHERN CALIFORNIA WATER COMPANY, a corporation; SUBURBAN WATER SYSTEMS, a corporation; SUNNY SLOPE WATER CO., a corporation; VALLECITO WATER CO., a corporation; CITY OF ALHAMBRA, a municipal corporation; CITY OF ARCADIA, municipal corporation; CITY OF AZUSA, municipal corporation; CITY OF COVINA, a municipal corporation; CITY OF EL MONTE, a municipal corporation; CITY OF GLENDORA, a municipal corporation; CITY OF MONROVIA, a municipal corporation; CITY OF MONTEREY PARK, a municipal corporation; CITY OF SOUTH PASADENA, a municipal corporation; BALDWIN PARK COUNTY WATER DISTRICT, a county water district; and SAN GABRIEL COUNTY WATER DISTRICT, a county water district,

JUDGMENT

UPPER SAN GABRIEL VALLEY MUNICIPAL WATER

Defendants,

DISTRICT, a municipal water district, and CALIFORNIA DOMESTIC WATER COMPANY, a corporation,

Intervenors.

The original complaint herein was filed by Plaintiffs or
May 12, 1959, and an amended complaint was filed herein on June
8, 1961. Each Defendant in this action filed an answer to the
amended complaint denying the material allegations therein. On
, 1964, and, 1964,
respectively, Upper San Gabriel Valley Municipal Water District,
a municipal water district, and California Domestic Water
Company, a corporation, intervened in the action as Defendants.
On, 1964, there was filed herein a
Stipulation for Judgment signed by all of the parties to this
action,

After due examination and consideration of the pleadings, said Stipulation for Judgment and other documents and papers on file herein, it appears to the Court that:

- (a) In bringing and maintaining this action, plaintiff Central Basin Municipal Water District, a municipal water district, has done so as a representative of and for the benefit of all owners of water rights within, all owners of land within, and all inhabitants of, the district, except to the extent that defendant California Domestic Water Company is representing itself.
- (b) In intervening in this action, defendant Upper San Gabriel Valley Municipal Water District, a municipal water district, has done so as representative of and for the benefit of all owners of water rights within, all owners of land within, and all inhabitants of, the district, except to the extent that other Defendants who are within the district are representing themselves.

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- (c) There is a need for a physical solution to the complex water problems which have given rise to this action.
- (d) The physical solution embodied in this Judgment is a feasible, equitable and just resolution of the issues presented by the amended complaint and answers thereto on file herein, and it will bring about a fair division of the water supply of the San Gabriel River System between Upper Area and Lower Area, as those terms are hereinafter defined.
- (e) On the basis of the Stipulation for Judgment filed herein and the consent of all Plaintiffs and Defendants it is in the interests of justice and in furtherance of the water policy of the State of California to proceed without trial and to make and enter this Judgment.

Now, therefore, it is hereby ORDERED, ADJUDGED AND DECREED:

JURISDICTION

1. The Court has jurisdiction of the subject matter of this action and of the Upper Area Parties and Lower Area Parties, as those terms are hereinafter defined.

EXHIBITS

- 2. The following Exhibits marked A and B, are attached to this Judgment and made a part hereof:
 - (a) Exhibit A -- Map entitled "Rio Hondo and San Gabriel River in Vicinity of Whittier Narrows Dam".
 - (b) Exhibit B -- Engineering Appendix.

DEFINITIONS

- 3. As used in this Judgment, the following terms shall have the meanings assigned to them:
 - (a) Central Municipal -- Central Basin Municipal Water District.
 - (b) Upper District -- Upper San Gabriel Valley Municipal Water District.
 - (c) Lower Area Parties -- the Plaintiffs, and

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all persons, firms and corporations, public or private, who are represented by Central Municipal.

- (d) Upper Area Parties -- the Defendants, and all persons, firms and corporations, public or private, who are represented by Upper District.
- (e) Upper Area -- the area (exclusive of the Raymond Easin and the portion of San Gabriel Mountains tributary thereto) wherein surface and subsurface waters are tributary to Whittier Narrows upstream from the common boundary of Upper District and Central Municipal through Whittier Narrows.
- (f) Lower Area -- the area which lies downstream from the common boundary of Central Municipal and Upper District through Whittier Narrows and which is included within the incorporated limits of the Plaintiffs.
- (g) Whittier Narrows -- a gap between Merced Hills and Puente Hills shown on Exhibit A.
- (h) Montebello Forebay -- the area designated as such on Exhibit A.
- (i) Export to Lower Area -- water diverted from surface streams in Upper Area or pumped or developed from underground sources in Upper Area, and in either case conveyed by conduit through Whittier Narrows.
- (j) Subsurface Flow -- all water which passes as ground water through Whittier Narrows at the "narrowest section" as shown on Exhibit A.

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- (k) Surface Flow -- all water other than Export to Lower Area and Subsurface Flow, which passes from Upper Area to Lower Area through Whittier Narrows.
- (1) Usable Water -- all Surface Flow, Subsurface Flow and Export to Lower Area, but excluding:
 - (1) that portion of Surface Flow, if any, which crosses the southerly boundary of Montebello Forebay as surface runoff less the amount of Surface Flow which has been caused to flow out of Montebello Forebay as surface runoff by any spreading of water in Montebello Forebay by or on behalf of Lower Area Parties, or any of them;
 - (2) water imported by or on behalf of Lower Area Parties from outside of the watershed of the San Gabriel River System;
 - (3) Reclaimed Water, as defined in subparagraph (o) herein, provided, however, that Reclaimed Water (other than that reclaimed by or on behalf of Lower Area Parties) which is percolated and commingled with ground water in Upper Area shall be deemed Subsurface Flow, Surface Flow, or Export to Lower Area as the case may be, when and if it passes through Whittier Narrows;
 - (4) that portion, if any, of Export to Lower Area which in any Water Year after September 30, 1966, exceeds 23,395 acrefeet:
 - (5) Make-up Water, as defined in subpara-

graph (m) herein; and

- (6) any water whether flowing on the surface or beneath the surface of the ground which has passed any of the points of surface measurement in Whittier Narrows shown on Exhibit B and prior to its passing from Upper Area to Lower Area is intercepted and returned upstream by conduit or otherwise so that it could again pass any such points of measurement.
- (m) Make-up Water -- water of usable quality for ground water recharge required to be delivered to Lower Area under terms of paragraph 5 of this Judgment.
- (n) Water Year -- October 1 through the following September 30.
- (o) Reclaimed Water -- water reclaimed from sewage generated in the watershed of the San Gabriel River System above Whittier Narrows.

DECLARATION OF RIGHT

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4. Lower Area Parties have rights in the water supply of the San Gabriel River System. The nature and extent of such rights is not known; however, Lower Area Parties and all other persons downstream from Whittier Narrows who receive water from the San Gabriel River System or have rights in and to such water, shall have, as against Upper Area Parties and all other pumpers of water in the San Gabriel Valley, a right to receive from Upper Area an average annual usable supply of ninety-eight thousand four hundred fifteen (98,415) acre-feet of water over a long-term period of normal rainfall derived as set forth in Exhibit B, consisting

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of Surface Flow, Subsurface Flow, Export to Lower Area and Make-up Water. If in the future a court of competent jurisdiction shall decree that any person downstream from Whittier Narrows within Central and West Basin Water Replenishment District who is not bound by this Judgment, shall have, as against Upper Area Parties and substantially all other pumpers in the San Gabriel Valley, a right to receive from Upper Area a stated amount of usable supply consisting of Surface Flow, Subsurface Flow, Export to Lower Area or Make-up Water, which right arose out of and is based upon the ownership of land or the production of water downstream from Whittier Narrows and within Central and West Basin Water Replenishment District, then and in that event the stated amount of such right so decreed shall not increase the declared rights as set forth in this paragraph 4.

PHYSICAL SOLUTION

5. In recognition of the complexities of annual supply and demand and variations in the components thereof, the Court hereby declares the following physical solution to be a fair and equitable basis for satisfaction of the declared right set forth in paragraph 4 hereof. Compliance with this paragraph 5 shall constitute full and complete satisfaction of said declared right.

AVERAGE ANNUAL ENTITLEMENT

(a) It is determined that the amount of Lower Area average annual entitlement to Usable Water is ninety-eight thousand four hundred fifteen (98,415) acre-feet.

BASIS OF ANNUAL ENTITLEMENT

(b) The outflow of water from Upper Area through Whittier Narrows to Lower Area has

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varied from year to year and will vary from year to year in the future depending on changing conditions of supply and demand; and as to any Water Year, the average annual rainfall for the San Gabriel Valley during the ten (10) consecutive Water Years ending with that Water Year, is a reasonable basis for determining the entitlement of Lower Area to Usable Water for such Water Year.

- (c) The rainfall in each Water Year for the San Gabriel Valley shall be determined by application of the procedures described in Exhibit B.
- (d) The quantity of water which Lower Area is entitled to receive in any Water Year (hereinafter called Lower Area Annual Entitlement) shall be determined in accordance with the following table, except that no determination of Lower Area Annual Entitlement shall be made for the last year of any Long-term Accounting Period as hereinafter defined.

RAINFALL ADJUSTMENT TABLE

TABLE A

LOWER AREA ANNUAL ENTITLEMENT BASED ON 10-YEAR AVERAGE RAINFALL FOR SAN GABRIEL VALLEY

(In Acre-feet)

Inches of Rain- fall O		.1	.2	.3	.4	.5	. 6	.7	. 8	.9
14	64,200	64,900	65,700	66,500	67,200	68,000	68,700	69,500	70,300	71,100
15	71,800	72,600	73,400	74,100	74,900	75,600	76,400	77,200	77,900	78,700
16	79,500	80,200	81,000	81,800	82,600	83,300	84,000	84,800	85,600	86,400
17	87,100	87,900	88,700	89,400	90,200	91,000	91,500	92,500	93,200	94,000
18	94,800	95,300	96,200	96,900	97,600	98,300	98,800	99,500	100,100	100,800
19	101,400	102,000	102,700	103,300	103,900	104,500	105,100	105,700	106,300	107,000
20	107,600	108,200	108,800	109,400	110,100	110,700	111,300	111,900	112,500	113,100
21	113,700	114,300	115,000	115,600	116,200	116,800	117,400	118,100	118,600	119,300
22	119,900	120,400	121,000	121,600	122,200	122,700	123,300	123,900	124,400	125,000
23	125,500	126,100	126,700	127,200	127,800	128,400	128,900	129,500	130,100	130,600
24	131,200	131,700	132,200	132,700	133,100	133,700	134,100	134,700	135,100	135,600

DETERMINATION
OF ACCRUED
DEBIT OR
CREDIT

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(e) The difference between the aggregate of water entitlements determined as provided in this Judgment and the aggregate of Usable Water and delivered Make-up Water shall be computed as of the end of each Water Year. Any excess of water entitlements over the quantity of Usable Water and Make-up Water received by Lower Area after September 30, 1963, is hereinafter referred to as Accrued Debit of Upper Area. Any excess of Usable Water and Make-up Water received by Lower Area after September 30, 1963, over water entitlements, is hereinafter referred to as Accrued Credit of Upper Area.

ACCRUED DEBIT

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(f) If at the end of any Water Year it is determined pursuant to subparagraph (e) of this paragraph 5 that there is an Accrued Debit of Upper Area, then Upper District shall cause Make-up Water to be delivered to Lower Area during the following Water Year in an amount not less than the sum of (1) one-third of such Accrued Debit of Upper Area, and (2) that portion, if any, of such Accrued Debit of Upper Area over 25,000 acre-feet which remains after deducting said one-third. If Upper District shall fail to deliver Make-up Water as next above provided and Plaintiffs shall have diligently pursued their legal and equitable remedies to cause Upper District to so deliver, and either: (1) it shall be finally determined that Upper District is not obligated to so deliver, or (2) it shall appear that Upper District will not thereafter deliver Make-up Water, then Defendants and any successor or successors in interest by title to a Defendant's water right in Upper Area shall be obligated to so deliver Make-up Water. The provisions of this paragraph are subject to the provisions of paragraph 5(h) below. (g) If at the end of any Water Year it is

ACCRUED CREDIT

(g) If at the end of any Water Year it is determined pursuant to subparagraph (e) of this paragraph 5 that there is an Accrued Credit of Upper Area, then there shall be no obligation to deliver Make-up Water to Lower Area during the following Water Year.

LONG-TERM ACCOUNTING

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(h) Following September 30, 1963, a Long-term Accounting shall be made from time to time but not sooner than at the end of 15 Water Years, nor later than 25 Water Years after September 30, 1963, or after the last such accounting, whichever is later. A Long-term Accounting shall be made sooner than said 25-year period whenever the average annual rainfall in the San Gabriel Valley for a period of 15 Water Years or more after September 30, 1963, or after the last such accounting, whichever is later, is at least 18 inches but not more than 19 inches.

In making such Long-term Accounting for any such period (herein called Long-term Accounting Period), the aggregate of all Usable Water and Make-up Water received by Lower Area during such period shall be determined and (a) there shall be deducted from said aggregate the amount of Make-up Water, if any, delivered during such period by reason of the existence of an Accrued Debit of Upper Area at the end of the immediately preceding Longterm Accounting Period, or (b) there shall be added to said aggregate the amount of any Accrued Credit of Upper Area determined to exist at the end of the immediately preceding Long-term Accounting Period. The net aggregate amount of Usable Water and Make-up Water so computed shall be compared to the result to be obtained by (1) multiplying the 98,415 acre-feet of water to be received by

MAKE-UP

Lower Area as its average annual usable supply by the number of Water Years in the Long-term Accounting Period, and (2) adjusting the product by the percentage by which the average annual rainfall (to the nearest one hundredth of an inch) for the Long-term Accounting Period involved exceeds or is less than 18.52 inches. (i.e.:

98,415 x (number of Water Years in

Period) x (average rainfall for the Period).)

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If as a result of such comparison it is determined that there is a deficiency in the net aggregate amount of Usable Water and Make-up

Water received during the Long-term Accounting

Period, then such deficiency shall be compensated in the following Water Year by delivery of Make-up Water to Lower Area in the manner and by the means provided herein. If it is determined as a result of such comparison that there is an excess of net aggregate Usable

Water and Make-up Water received, then the amount of such excess shall be carried forward as an Accrued Credit of Upper Area.

(i) Make-up Water which Defendants are obligated to deliver through Upper District may be delivered by any one or more of the following means:

SURFACE FLOW DELIVERY

(1) By causing water other than Reclaimed Water to flow on the surface into Montebello Forebay by any means and from any source, provided that such deliveries shall

be at such rates or flows and at such times as may be scheduled by the Watermaster.

RECLAIMED WATER CREDIT

(2) By paying to Central Municipal for the benefit of all Lower Area Parties the total amount or any portion of the total amount which Central and West Basin Water Replemishment District or any Plaintiff shall have expended in reclaiming water or for the purchase of Reclaimed Water in the preceding Water Year, and which water when so reclaimed or purchased shall have been passed through Whittier Narrows to Lower Area. Upon written request made by Upper District not later than three months after the end of a Water Year, Central Municipal shall give a written notice to Upper Distric and the Watermaster of the total number of acre-feet of such Reclaimed Water so reclaimed or purchased during the preceding Water Year and of the cost per acre-foot therefor at the existing Whittier Narrows Water Reclamation Plant for reclamation of waste water, and at any future additions thereto, and payment therefor at said cost, or costs, may be made not later than one year after receipt of such written notice. Such payment shall be made for the tota $oldsymbol{1}$ production of Reclaimed Water from the existing plant in the preceding Water Year 10 before Upper District shall be entitled make payment for all, or any portion of >

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Reclaimed Water produced in that year by any future addition to that plant. Such payment by Upper District on behalf of Defendants shall be deemed a delivery of Make-up Water equal to the quantity of Reclaimed Water for which the expenditure of a like sum would have paid at the cost, or costs, per acre-foot so paid for such Reclaimed Water. In no event, however, shall any payment by Upper District under this subparagraph (i)(2) be deemed a delivery of Make-up Water in excess of 14,735 acre-feet in any Water Year during which the amount of Make-up Water required to be furnished by Upper Area is available to it at ground water replenishment rates for delivery to Lower Area, except with the prior written consent of Plaintiffs. DIRECT DELIVERY

(3) By delivering, or causing to be delivered, water to any of Lower Area Parties

vered, water to any of Lower Area Parties with consent of Plaintiffs for use in Lower Area.

(j) It is further determined and adjudicated that the obligations provided above in subparagraphs (f) and (h) of this paragraph 5 for each Defendant shall constitute and be a servitude upon the existing water rights of each Defendant in and to the water supply of the San Gabriel River System upstream from Lower Area and shall run with and forever bind said water rights for the benefit of the water

WATER RIGHTS BOUND

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TRANSFER OF WATER RIGHTS

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rights of Lower Area Parties.

(k) If any Defendant, other than Upper District, shall desire to transfer all or any of its said water rights to a person, firm or corporation, public or private, who or which is not then bound by this Judgment as a Defendant, such Defendant shall as a condition to being discharged as hereinafter provided cause such transferee to appear in this action and file a valid and effective express assumption of the obligations imposed upon such Defendant under this Judgment as to such transferred water rights. Such appearance and assumption of obligations shall include the filing of a designation of the address to which shall be mailed all notices, requests, objections, reports and other papers permitted or required by the terms of this Judgment.

If any Defendant shall have transferred all of its said water rights and each transfered not theretofore bound by this Judgment as a Defendant shall have appeared in this action and filed a valid and effective express assumption of the obligations imposed upon such Defendant under this Judgment as to such transferred water rights, such transferring Defendant shall thereupon be discharged from all obligations hereunder. If any Defendant other than Upper District shall cease to own any rights in and to the water supply of the San Gabriel River System upstream from Lower Area, and shall have caused the appearance

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and assumption provided for in the third preceding sentence with respect to each voluntary transfer, then upon application to this Court and after notice and hearing such Defendant shall thereupon be relieved and discharged from all further obligations hereunder. Any such discharge of any Defendant hereunder shall not impair the aggregate rights of Lower Area Parties or the responsibility hereunder of the remaining Defendants or any of the successors.

WATERMASTER PROVISIONS

6. A Watermaster comprised of three persons to be nominated as hereinafter provided shall be appointed by and serve at the pleasure of and until further order of this Court. One shall be a representative of Upper Area Parties nominated by and through Upper District, one shall be a representative of Lower Area Parties nominated by and through Central Municipal, and one shall be jointly nominated by Upper District and Central Municipal. If a dispute arises in choosing the joint appointee, the Court shall make the appointment. If Central Municipal or Upper District shall at any time or times nominate a substitute appointee in place of the appointee last appointed to represent Lower Area Parties, in the case of Central Municipal, or to represent Upper Area Parties, in the case of Upper District, or if Central Municipal and Upper District shall at any time or times jointly nominate a substitute appointee in place of the joint appointee last appointed,

POWERS AND

DUTIES

such substitute appointee shall be appointed by
the Court in lieu of such last appointee or joint
appointee. Each such nomination shall be made in
writing, served upon the other parties to this
action and filed with the Court. The Watermaster
when so appointed shall administer and enforce
the provisions of this Judgment and the instructions
and subsequent orders of this Court.

- 7. The Watermaster shall have the following powers and duties and shall take all steps necessary to make the following determinations for each Water Year promptly after the end of such Water Year:
 - (a) the amount of Surface Flow,
 - (b) the amount of Subsurface Flow,
 - (c) the amount of Export to Lower Area,
 - (d) the amount of water which passed as Surface Flow or Subsurface Flow across the boundary between Upper Area and Lower Area through Whittier Narrows and which was imported by or on behalf of Lower Area Parties from outside of the watershed of the San Gabriel River System above Whittier Narrows,
 - (e) the amount and quality of Reclaimed Water reclaimed by or on behalf of Lower Area,
 - (f) the total amount of Make-up Water delivered to Lower Area, together with the respective amounts delivered by each method specified in paragraph 5 of this Judgment,
 - (g) the amount of Usable Water received by Lower Area,
 - (h) the amount of local storm inflow, originating in Lower Area, to the channel of

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each of Rio Hondo and San Gabriel River within Montebello Forebay,

- (i) the surface outflow from Montebello Forebay in the channel of each of the Rio Hondo and San Gabriel River,
- the number of inches of depth of average rainfall in the San Gabriel Valley,
- (k) the average annual rainfall in the San Gabriel Valley for the ten consecutive Water Years just ended.
- (1) Lower Area Annual Entitlement or the entitlement for the Long-term Accounting Period, determined pursuant to subparagraph (d) or (h), respectively, of paragraph 5 of this Judgment,
- (m) Accrued Debit of Upper Area, if any, or Accrued Credit of Upper Area, if any, as it exists at the end of such Water Year, and (n) the amount, if any, of Make-up Water which Upper District is obligated to deliver during the following Water Year.

TO BE BASED ON EXHIBIT B

DETERMINATIONS 8. Each of the above required determinations shall be based on and conform to the procedures specified in this Judgment and in Exhibit B insofar as said exhibit provides a procedure.

REPORTS MEASUREMENTS AND DATA

The Watermaster shall report to the Court and to each party in writing at the same time and not more than five months after the end of each Water Year the determinations required by paragraph 7 above.

The Watermaster shall cause to be installed and maintained in good working order such measuring

devices in Whittier Narrows and elsewhere as are necessary or required and not otherwise available for the making of the determinations required by paragraph 7 above.

The Watermaster shall collect and assemble from each of the parties, and the parties shall make available to the Watermaster, such records, reports and other data as may reasonably be required in the making of the determinations required of the Watermaster under paragraph 7 above. All records, reports and data received, maintained or compiled by the Watermaster shall be open to inspection by any party or its representative. 10. Any party who objects to any determination made by the Watermaster pursuant to paragraph 7 above, may make such objection in writing to the Watermaster within thirty (30) days after the Watermaster gives the required written notice of such determination. Within thirty (30) days after expiration of the time within which objection may be made to such determination, the Watermaster shall consider all objections thereto and shall amend, modify or affirm the determination and give notice thereof at the same time to all parties and shall file a copy of such final determination with the Court. If the Watermaster denies any objection in whole or in part, the party whose objection was so denied may within thirty (30) days after service of the final determination upon it, make written objection to such denial by filing its objections with the Court after first

OBJECTIONS

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mailing a copy of such objections to the

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CHANGE IN METHOD OF MEASUREMENT

Watermaster and to each party, and such party shall bring its objections on for hearing before the Court upon notice and motion and at such time as the Court may direct. If the Watermaster shall change or modify any determination, then any party may within fifteen (15) days after service of such final determination upon it object to such change or modification by following the procedure prescribed above in the case of a denial of an objection to the first determination. If objection to a final determination is filed with the Court as herein provided and brought on for hearing, then such final determination may be confirmed or modified in whole or in part as the Court may deem proper.

11. If the Watermaster shall deem it advisable to make a change in the method of making any measurement required under the terms of this Judgment, the Watermaster shall notify all parties of such proposed change, and if within sixty (60) days of such notification no party shall file written objections to such change with the Watermaster, the Watermaster may put such proposed change into effect. If, however, any party files its written objection to the proposed change, it shall by notice of motion filed not later than fifteen (15) days after the expiration of said 60-day period and served on the Watermaster and all parties bring its objection on for hearing before the Court at such time as the Court may direct, and the Court shall rule on whether the Watermaster may make such proposed change.

BUDGET

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In addition to the above-specified administrative powers and duties, the Watermaster shall prepare a tentative budget for each Water Year, stating the estimated expense for discharging the duties of the Watermaster set forth in this Judgment. The Watermaster shall mail a copy of the tentative budget to each of the parties at the same time at least sixty (60) days before the beginning of each Water Year. However, with respect to the first Water Year following the entry of this Judgment, the tentative budget shall be mailed not later than one hundred and twenty (120) days from the entry of this Judgment. If any party has an objection to a tentative budget, or any suggestions with respect thereto, that party shall present the same in writing to the Watermaster within fifteen (15) days after service of the tentative budget upon it. If no objections are received, the tentative budget shall become the final budget. If objections to the tentative budget are received, the Watermaster shall, within fifteen (15) days after the expiration of the time for presenting objections, consider all such objections, prepare a final budget, and mail a copy thereof to each party, together with a statement of the amount assessed, if any, to each party, computed as provided in paragraph 13. If the Watermaster denies any objection in whole or in part, the party whose objection was so denied may, within fifteen (15) days after service of the final budget upon it, make written objection to such denial by filing

its objections with the Court after first mailing a copy of such objections to each party, and such party shall bring its objections on for hearing before the Court upon notice and motion and at such time as the Court may direct. If the Watermaster makes a change in the tentative budget, then any party may within fifteen (15) days after service of the final budget upon it object to any such change by following the procedure prescribed above in the case of a denial of an objection to the tentative budget. If objection to the final budget is filed with the Court as herein provided and brought on for hearing, then such final budget may be confirmed or adjusted in whole or part as the Court may deem proper.

FEES AND

13. The fees, compensation and expenses of the Watermaster hereunder shall be borne by the parties in the following proportions: 50% by Upper District, 41.2% by Central Municipal, 7.125% by the City of Long Beach, and 1.675% by the City of Compton, or such other division among the Plaintiffs as they may agree upon in writing and file with the Watermaster.

Payment of the amount assessed to a party, whether or not subject to adjustment by the Court as provided in paragraph 12, shall be paid on or prior to the beginning of the Water Year to which the final budget and statement of assessed costs is applicable. If such payment by any party is not made on or before said date, the Watermaster shall add a penalty of 5% thereof to such party's

statement. Payment required of any party hereunder may be enforced by execution issued out of this Court, or as may be provided by order hereinafter made by this Court. All such payments and penalties received by the Watermaster shall be expended by him for the administration of this Judgment. Any money remaining at the end of any Water Year shall be available for use in the following Water Year.

SUCCESSOR OF UPPER DISTRICT

14. If a public agency or district shall be formed hereafter which shall include the present area of Upper District and shall have ability equal to or greater than that which Upper District now has to perform the obligations under this Judgment, and shall appear in this action and file a valid and effective assumption of such obligations, then Upper District upon application to this Court, and after notice and hearing, shall thereupon be relieved and discharged from all further obligations hereunder.

CONTINUING JURISDICTION OF THE COURT

15. Full jurisdiction, power and authority is retained and reserved by the Court for the purpose of enabling the Court upon application of any party by motion and upon at least thirty (30) days notice thereof, and after hearing thereon (i) to make such further or supplemental orders or directions as may be necessary or appropriate for the construction, enforcement or carrying out of this Judgment, and (ii) to modify, amend or amplify any of the provisions of this Judgment whenever substantial developments affecting the physical, hydrological or other conditions dealt

with herein may, in the Court's opinion, justify or require such modification, amendment or amplification.

If at any time Plaintiffs and at least two-thirds of the Defendants including any two of the

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thirds of the Defendants including any two of the cities of Alhambra, Azusa and Monterey Park, shall file with the Court a written stipulation (i) that henceforth in determining any one or more of the component parts of Usable Water received by Lower Area in any Water Year, the Watermaster shall not use the method specified in this Judgment but shall use instead a new, different or altered method as specified and described in such stipulation, and (ii) that such new, different or altered method or methods shall be applied to redetermine the average annual amount of Usable Surface Flow, Subsurface Flow and Export to Lower Area which Lower Area received each Water Year during the period October 1, 1934 to September 30, 1959, referred to as the base period, and that on the basis of such redetermination the Court may modify paragraphs 4 and 5 of this Judgment to establish a new and different water entitlement and yearly adjustment thereto which shall thereafter control, then and in that event, after hearing pursuant to motion and notice to all parties, held at such time as the Court may direct, the Court may deny the motion or it may grant it and (a) approve the future use of the stipulated new, different or altered method or methods, by the Watermaster, and (b) by use of the stipulated new, different or altered method or

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REPORT OF

OF WATER RIGHTS methods, redetermine the average annual amount of Usable Surface Flow, Subsurface Flow and Export to Lower Area received each Water Year during the base period, and on the basis thereof modify paragraphs 4 and 5 of this Judgment to provide for a new and different water entitlement and yearly adjustment thereto, which modifications shall be effective and control commencing with the Water Year following the entry of the order so modifying paragraphs 4 and 5.

16. Every transfer of any of those water rights of Defendants which are the subject of Paragraph 5(j) of this Judgment, whether such transfer is voluntary or involuntary, shall be reported promptly in writing by the transferor to the Watermaster; and the Watermaster shall give prompt written notice of such transfer to each party and to each transferee involved in every other transfer of any of those water rights. Such report by the transferor and notice by the Watermaster shall contain the following information as to each such transfer:

- (a) The identity of the transferor;
- (b) The identity of the transferee;
- (c) The effective date of the transfer;
- (d) A brief description of the document by which such transfer is made, and the recording data, if any;
- (e) A statement as to whether the transfer was voluntary or involuntary;
- (f) A statement whether or not after such transfer the transferor still has or

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NOTICES

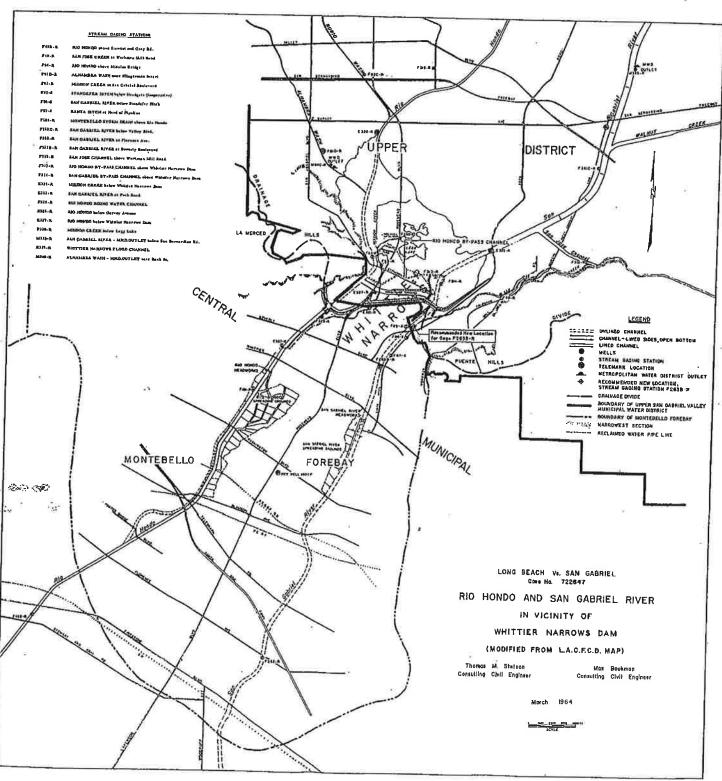
claims to have any of the water rights which are the subject of Paragraph 5(j) of this Judgment.

17. All notices, requests, objections, reports and other papers permitted or required by the terms of this Judgment shall be given or made by written document and shall be served by mail on each party and on each transferee of water rights who has appeared and filed the assumption of obligations required by paragraph 5(k) of this Judgment, and where required or appropriate, on the Watermaster. For all purposes of this paragraph the mailing address of each party shall be that set forth below its signature to the Stipulation for Judgment, and the mailing address of each transferee of water rights shall be that set forth in the appearance and assumption of obligations required by paragraph 5(k) of this Judgment, until changed as provided below. No further notice of any kind as to any matter arising hereunder, including notice to attorneys of record for any party or such transferee, need be given, made or served.

If any party or any such transferee of water rights shall desire to change its designation of mailing address, it shall file a written notice of such change with the clerk of this court and shall serve a copy thereof by mail on the Watermaster. Upon the receipt of any such notice the Watermaster shall promptly give written notice thereof to each party and to each transferee of water rights.

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1	EFFECTIVE	18. The rights decreed and the obligations
2	DATE	imposed by this Judgment shall be effective
3 :		October 1, 1963, and shall accrue from that
4		date.
5	COSTS	19. None of the parties shall recover any costs
6		from any other party.
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8		Dated:, 1964.
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1		Judge
12		Judge
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LONG BEACH v. SAN GABRIEL

ENGINEERING APPENDIX

EXHIBIT B

ENGINEERING APPENDIX

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ENGINEERING APPENDIX

INTRODUCTION

Pursuant to the declaration of rights contained in paragraph 4 of the Judgment and the physical solution contained in paragraph 5 of the Judgment, the purpose of this exhibit is to establish the basis for calculations and measurements to provide for operation of the Judgment in the future.

Unless otherwise provided in this exhibit, all terms used herein are used in the same sense as defined or used in the Judgment.

The derivation of the Lower Area average annual entitlement is based upon the data presented herein covering the base period. However, if a more accurate method of determining Subsurface Flow is developed at some future time, it will be acceptable for use in carrying out the terms of this Judgment so long as it can also apply to the base period and to the years over which the Judgment shall have operated to that time.

I. DERIVATION OF LOWER AREA AVERAGE ANNUAL ENTITLEMENT

The Lower Area average annual entitlement is stipulated in paragraph 5 (a) of the Judgment to be 98,415 acre-feet. It was derived from three components of water supply over the base period, October 1, 1934, through September 30, 1959. Said components were: (1) Usable Surface Flow, (2) Subsurface Flow, and (3) Export to Lower Area.

A. Usable Surface Flow

For the base period, Usable Surface Flow was calculated as that portion of Surface Flow which percolated

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in Montebello Forebay, less the calculated amounts of Lower Area Replenishment Water (hereby defined as water imported from outside of the watershed of the San Gabriel River system by or on behalf of Lower Area Parties for replenishment of Montebello Forebay and passing from Upper Area to Lower Area), and less one-half of the Raymond Basin sewage discharged in Upper Area from the Tri-City Sewage Treatment Plant.

Table 1 presents the calculation of Usable Surface Flow during the base period. The average annual quantity was calculated to be 51,620 acre-feet. Its derivation is summarized in the following tabulation.

			Average annual quantity in acrefeet
1.	Surface Flow		108,560
2.	Montebello Forebay surface outflow	45,000	at
3.	Local storm inflow within Montebello Forebay	1,660	
4.	Portion of Surface Flow leaving Montebello Forebay (2 minus 3)		43,340
5.	Surface Flow percolated in Montebello Forebay (1 minus 4)		65,220
6.	Lower Area Replenishment Water (Colorado River water) passing through Whittier Narrows	11,870	
7.	One-half of Raymond Basin sewage discharged in Upper Area	1,730	
8.	Usable Surface Flow (5 minus 6 minus 7)		51,620

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TABLE 1 CALCULATION OF USABLE SURFACE FLOW

DURING BASE PERIOD (Acto-Foet)

			Surface	Flow			Mo	ntebello Fo	Montebello Forebay surface outflow	ce outflow			9		
(2)	(3)	(3)	3	(3)	(6) San Gabriel	£	(8)	(9) San	(01)	(11)	(12)	(13) Surface Flow	(14)	(15) One-balf of Raymond	(16)
;		~	Rio Hondo		River at		Tour Property	Gabriel		Monteballo	Outflow of	percolated in	Colorado River	Basin sewage discharged	
Water	Kio Kondo	_	Bypass	Sycamore	maronim	Total	Ato Mondo	Kiver 5.262	Subtatel	otorm Drain	Surface	Montepello	Water passing	in Oppor Area	Osable Outford date
4001	50-4	£ -03	2 2 2 2	Canyon	Taren Brigit	(2+3+4+5+6)	4	7074.4	(6+9)	101-4	(10-11)	(7-12)	THE NAME OF THE PARTY OF THE PA		(13-14-15)
1934-35	29, 230	9, 140	0	390	22,410	61, 170	6,000	4, 700	10,700	1,650	9,050	52, 120	51	2,650	49,470
36	20,700	9,810	0	70	16, 140	46, 720	4,220	1,750	5,970	890	5,080	41,640		2,735	38,905
37	50, 900		0	092	47,750	109,750	26,870	21,000	47,870	2, 170	45,700	64,050		2,865	61,185
38	209, 330	14,700	0	510	109, 120	333, 660	172, 100	60,000	232, 100	2, 050	230,050	103,610		2,960	100,650
39	30, 650		0	200	38,380	85, 560	9,540	2,540	12,080	980	11, 100	74,460		2,970	71,490
1939-40	27,660	16,210	٥	110	29,510	73, 490	4,850	1,900	6, 750	890	5, 860	67, 630		2,985	64, 645
4	130,650	18, 120	٥	1,070	112,440	262,280	93,260	75, 780	169,040	4, 090	164,950	97,330		3,205	94, 125
45	28,810		٥	80	43,770	91,400	6, 730	13, 570	20,300	096	19,340	72,060		3, 140	68,920
4. 3	59,470		0	150	222,670	299,700	41,910	186, 420	228,330	2,580	225,750	73,950		3,235	70,715
44	51,390	18,850	0	220	121, 420	191,880	26, 820	79,930	106,750	2,390	104, 360	87,520		3,545	83, 975
1944-45	32,300	18,020	0	70	57, 130	107,520	8,460	26, 110	34,570	770	33, 800	73,720		3,490	70.230
46	43, 160	15, 630	0	7.0	51, 580	110,440	11,280	16,480	27,760	870	26,890	83,550		3,635	79,915
47	48,410	14, 230	0	110	26, 790	119,540	16,030	27,650	43,680	1, 350	42,330	77,210		3,785	73, 425
48	25,370		0	20	20,970	59,030	3,510	٥	3,510	910	2, 600	56, 430		2,065	54,365
46	11, 100		0	\$	13,590	35,370	1, 490	•	1,490	098.	630	34, 740		0	34,740
1949-50	12,280		0	110	11,780	32,950	2,840	٥	2,840	1,240	1,600	31,350		0	31,350
51	7,880		0	0	8,420	23,000	180	0	780	890	-110	23, 110		0	23, 110
25	34,570		0	530	26,800	97,990	26,040	24, 250	50, 290	3,330	46,960	51,030		0	51,030
53	16, 120		D	50	22,350	44,730	3,450	986	4,430	1, 430	3,000	41,730		o	41,730
54	23, 390		7,230	100	18, 130	52,430	10,760	3, 790	14,550	2, 190	12, 360	40.070	15,690		24, 380
1954-55	11,350		9,730	40	14,630	38,880	8,000	1,000	9,000	1,210	7, 790	31,090	23, 130	0	7.960
99	16, 180		14,990	150	28,930	62, 560	14,540	10,360	24,900	2, 110	22, 790	39,770	42,870	ō	-3,100
57	16,840		20,400	20	22,220	61,350	4,640	1, 390	6,030	1, 120	4,910	56,440	51,870	0	4.570
SS.	119,320		15, 300	240	91,320	229, 140	30,260	23, 960	54, 220	3, 250	50,970	178, 170	103,900	: # D	74,270
1958-59	39,800	3,920		01	39,790	83, 520	3,900	3, 130	7,030	1,230	5, 300	77,720	59, 390	0	18, 330
TOTALS	TOTALS 1,096,860 266,530	266, 530	67,650	4,980	1,278,040	2,714,060	538, 280	586, 690	1, 124, 97.0	41,410	1,083,560	1,630,500	296,850	43,265	1, 290, 385
Averages	43,870	10,660	2,710	200	51, 120	108,560	21,530	23, 470	45,000	1,660	43, 340	65,220	11,870	1,730	51,620

B. Subsurface Flow

The State of California, Department of Water Resources, published in April 1962, Appendix B, "Safe Yield Determinations", of Bulletin No. 104, a report entitled "Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County". That report included estimates of the seasonal Subsurface Flow through Whittier Narrows for each Water Year during the period 1934-35 through 1956-57. By applying the same methods of computation, the estimates have been extended through the Water Year 1958-59 and a 25-year average of 28,400 acre-feet derived.

Table 2 sets out the Subsurface Flow for each Water Year in the base period and the average annual Subsurface Flow during the base period.

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TABLE 2
SUBSURFACE FLOW
DURING BASE PERIOD

Water Year	Acre-Feet
1934-35 36 37 38 39	33,500 33,500 31,100 25,600 25,000
1939-40 41 42 43 44	23,900 23,300 21,800 21,900 23,700
1944-45 46 47 48 49	23,500 23,100 22,400 25,700 30,300
1949-50 51 52 53 54	34,000 32,800 32,100 32,800 33,200
1954-55 56 57 58	33,600 32,200 32,600 30,500
1958-59	27,800
TOTAL	709,900
Average	28,400
	1934-35 36 37 38 39 1939-40 41 42 43 44 1944-45 46 47 48 49 1949-50 51 52 53 54 1954-55 56 57 58 1958-59 TOTAL

C. Export to Lower Area

During the base period there were a number of water producers or water service agencies which produced water by surface diversions or wells in Upper Area and exported it to Lower Area. At the present time, and for the past several years, all such water has been pumped from wells in Upper Area.

There are four water service agencies which currently so export water. They are the Rincon Ditch Company, California Domestic Water Company, Suburban Water Systems, and the City of Whittier.

Table 3 sets forth Export to Lower Area for each Water Year during the base period and the average annual Export to Lower Area during the base period.

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TABLE 3 EXPORT TO LOWER AREA DURING BASE PERIOD

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4	Water Year	Acre-Feet
5	1934-35	15,049 21,644
6	35-36 36-37 37-38	22,668 25,151
7	38-39	27,532
8	1939-40	22,566
9	40-41 41-42	24,191 27,514
10	42-43 43-44	30,484 31,182
11	1944-45	25,953
12	45-46 46-47 47-48	27,456 29,877 30,165
13	48-49	25,515
14	1949-50	18,363 21,651
15	50-51 51-52 52-52	16,302
16	52-53 53-54	18,141 18,360
17	1954-55	18,796
18	55-56 56-57	20,728 19,686
19	57-58 58-59	22,031 23,881
20	TOTAL	584,886
21	Average	23,395
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D. Derivation of Lower Area Average Annual Entitlement

Table 4 presents the derivation of the Lower Area average annual entitlement.

TABLE 4

LOWER AREA AVERAGE ANNUAL ENTITLEMENT

(In acre-feet for base period)

Usable Surface Flow (Table 1)	51,620
Subsurface Flow (Table 2)	28,400
Export to Lower Area (Table 3)	23,395
Sub-total	103,415
Stipulated deduction	5,000
Lower Area average annual entitlement	98,415

II. DETERMINATION OF FUTURE LOWER AREA ANNUAL ENTITLEMENT

In determining a future Lower Area Annual Entitlement, as set forth in paragraph 5 (d) of the Judgment, the annual rainfall for San Gabriel Valley shall be determined in accordance with procedures set forth below, which are those presently utilized by the Los Angeles County Flood Control District. The 90-year (1872-73 through 1961-62) average rainfall for San Gabriel Valley has been calculated by said District to be eighteen and fifty-two one-hundredths (18.52) inches. For purposes of this Judgment, this quantity shall be the long-term average annual rainfall for San Gabriel Valley and shall not be subject to change.

The arithmetic average of the annual rainfall recorded at the four precipitation stations listed below shall constitute the rainfall for San Gabriel Valley for the respective Water Year.

-8-

Station No.	Location
95	114 East First Street, San Dimas
102C	19711 East Valley Blvd., Walnut
108C	119 South Hoyt Avenue, El Monte
610B	City Hall, Pasadena

Table 5 presents the annual rainfall for San Gabriel Valley for the Water Years 1954-55 through 1962-63.

ANNUAL RAINFALL FOR SAN GABRIEL VALLEY

Water Year	Rainfall, Inches
1954-55	13.9
56	16.7
57	13.7
58	30.2
59	8.5
1959-60	10.6
61	5.9
62	22.4
63	12.3

The average rainfall in inches for the ten (10) consecutive Water Years ending with the year for which entitlement is being calculated shall be used as the basis for determining Lower Area Annual Entitlement.

Lower Area Annual Entitlements have been computed for 10-year average rainfall in increments of one-tenth (0.1) inch between fourteen (14) and twenty-five (25) inches and are set forth in Table A in paragraph 5 (d) of the Judgment. The following outlines the procedure for determining Lower Area Annual Entitlement from Table A:

- (1) Derive the 10-year average rainfall for San Gabriel Valley to the nearest onetenth (0.1) inch;
- (2) Enter Table A in left-hand column at whole number of inches of rainfall; and

(3) Read horizontally to the vertical column representing the appropriate tenth of an inch of rainfall to obtain the quantity of Lower Area Annual Entitlement in acre-feet.

III. FUTURE MEASUREMENTS

It will be necessary to maintain records of measurement of stream flow, flow in pipelines, rainfall and depth to ground water at a number of locations. The purpose of this Part III is to locate and identify those measurement stations and to specify the manner in which the measurements are to be used in the future operation of the Judgment. The line through Whittier Narrows shown on Exhibit A as "narrowest section" is the line at which accounting shall be made of the water to be received in the future by Lower Area Parties. The Watermaster shall, insofar as practicable, utilize measurement data available from existing sources. When such data are not available the Watermaster may make such measurements as may be necessary or reasonably required for the purposes of this Judgment. The Watermaster is hereby authorized to re-establish, rebuild or replace measuring stations whenever necessary for the operation of this Judgment.

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A. Surface Water Measurements and Calculations.

There may be several categories of water flowing on the surface through Whittier Narrows. Among them may be local stream flow, Lower Area Replenishment Water, Reclaimed Water and Make-up Water. The Watermaster shall have the responsibility of determining the quantities of each category of water flowing through Whittier Narrows in the future.

The approximate locations of stream measuring stations in and near Whittier Narrows are shown on Exhibit A. The surface

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water measurements and calculations shall include the following:

- 1. Measurements of Surface Flow.
 - a. Rio Hondo above Mission Bridge,
 Station F64-R.
 - b. Mission Creek at San Gabriel
 Boulevard, Station F83-R.
 - c. Rio Hondo By-pass Channel, Station F313-R.
 - d. Whittier Narrows Flood Channel, Station E337-R.
 - e. Calculation of Sycamore Canyon runoff based on annual rainfall to nearest inch at Station 170-C as shown on Table 6.
 - f. San Gabriel River near Parkway Bridge. This is to be a new station to replace the existing station on San Gabriel River at Beverly Boulevard, Station F263B-R.
 - g. The portion of Reclaimed Water from Whittier Narrows Reclamation Plant diverted to Rio Hondo.
- Measurement of local storm inflow to the channe I
 of each of the Rio Hondo and San Gabriel River
 within Montebello Forebay.
 - a. Montebello storm drain, Station F181-R.
 - b. Calculation of unmeasured local storm inflow.
- 3. Measurements of diversions to spreading grounds

 Montebello Forebay.
- 4. Measurement of surface outflow from Montebello Forebay in the channel of each of Rio Hondo and

San Gabriel River.

- a. Rio Hondo above Stewart and Gray Road, Station F45B-R.
- b. San Gabriel River at Florence Avenue, Station F262-R.
- 5. Measurement of Lower Area Replenishment Water imported to Upper Area from outside the watershed of the San Gabriel River system.
 - a. Rio Hondo By-pass Channel, Station F313-R.
 - b. San Gabriel By-pass Channel, Station F314-R.
 - c. San Gabriel River MWD Outlet, Station M335-R.
 - d. Alhambra Wash MWD Outlet, Station M340-R.
 - e. Any other measuring point or points in Upper Area at which such replenishment water is released.
- 6. Measurement of total Reclaimed Water from Whittier Narrows Reclamation Plant reclaimed by or on behalf of Lower Area Parties.

In the event that any of the aforementioned gaging stations are inoperative for any reason and for any period of time the Watermaster shall estimate the quantity that would have been measured at the station had it been operative. The estimate shall be based on correlation to nearby operative measuring stations or on other reasonable engineering methods.

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TABLE 6

RAINFALL - RUNOFF RELATIONSHIP OF SYCAMORE CANYON*

4 5	Annual rainfall, in inches at Precipitation Station No. 170-C	Estimated runoff in acre-feet
6	6 7	5 10
7	6 7 8 9 10	15 25
8	11	35 45
9	12 13	60 75
10	14 15 16	90 105 125
111	17	145 170
1200	18 19 20	200 240
14	21 22	275 315
15	23 24 25	355 400
16	25 26 27	445 _. 490 535
17	28 29	580 630
18	30	685

Extrapolate for rainfall values in excess of 30 inches.

* Located on Westerly side of Whittier Narrows, upstream from dam and downstream from stream gaging Station F64-R. Approximate drainage area is 2.77 square miles.

B. Subsurface Flow

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The determination of Subsurface Flow involves certain measurements and procedures which are set forth in this section. In connection with a recent comprehensive study made by the State of California, Department of Water Resources, for Bulletin No. 104, "Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County", estimates were made of Subsurface Flow through Whittier Narrows. The State concluded that a reasonable method of determining Subsurface Flow was by the transmissibility method, which is based on Darcy's Law applied

at the location shown on Exhibit A as "narrowest section". Darcy's Law states that Q = PIA, in which

Q = Subsurface Flow

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P = Permeability, in gallons per day per square foot under unit hydraulic gradient

I = Slope of water table

A = Cross-sectional area

Under this Judgment calculations shall be made by the Watermaster for the spring and fall of each year and because of slight variations due to the nature of the data available, Subsurface Flow for any one year will be equal to the tri-annual average of the quantities calculated for the three years ending with the year of calculation. In this manner, annual Subsurface Flow shall be based on the average of six calculations, the first of which shall be the spring of 1962.

The elevation of the ground surface at the "narrowest section" of Whittier Narrows is deemed to be 208 feet above sea level, and the width of the section is deemed to be 7,900 feet. Water levels fluctuate at Whittier Narrows and the cross-sectional area of the ground water at Whittier Narrows will vary with fluctuations in ground water elevation.

It should be noted that T = PD, where T = transmissibility in gallons per day per foot of width under unit hydraulic gradient and <math>D = saturated depth in feet. Therefore PA = TW and Q = PAI = TWI. The product TW (or PA) for the entire cross-sectional area was determined to be $4,739.5 \times 1,000,000$ gallons per day, or 7,333.6 cfs. The actual slope of the water table, I, would then be applied to the calculated quantity of TW (or PA).

The average permeability of the material to a depth of 100 feet below the ground surface has been determined to be equal to 2,000 gallons per day per square foot, which is

equal to .003095 cubic feet per second per square foot. This represents the average permeability in the zone of water level fluctuation.

In order to correct for the unsaturated depth, the equation Q = TWI is modified to Q = (TW - C)I where

 $C = P_1Wd$,

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C = The flow which would occur in the unsaturated section if it were saturated, in cubic feet per second under unit hydraulic gradient.

P1 = Average permeability for a distance of 100 feet below the ground surface.

W = The cross-sectional width, or 7,900 feet.

d = The distance from the water surface to the top of the ground, or 208 feet minus ground water elevation.

Utilizing the values of permeability shown above, then

C = 24.45 d, in cubic feet per second, for values of "d" to a depth of 100 feet below the ground surface.

The "effective transmissibility" is equal to the total transmissibility times the width at the narrowest section minus C, or,

 $Tw_{o} = TW - C$

 $Tw_{\alpha} = 7,334 - C$, in cubic feet per second.

Subsurface Flow is equal to the effective transmissibility times the average slope of the water table. The formula derived from the foregoing, may be stated as follows:

Q = 724 I [7,334 - 24.45 (208 - E)]

Where: Q = Subsurface Flow in acre-feet per year,

I = Average adjusted slope of ground water surface at narrowest section, and

E = Ground water elevation of the water surface in feet above sea level at the narrowest cross-section.

The detailed steps to be carried out by the Watermaster are as follows:

- (1) Ground water level contour maps in the vicinity of Whittier Narrows are drawn on the basis of water level measurements.
- (2) A line representing the narrowest cross-section is drawn on the ground water contour maps.
- (3) This line is subdivided into four equal lengths.
- (4) The average slope of the water table at each of the three points within the narrowest section is determined along a line perpendicular to the ground water contours in the manner heretofore used by the State of California, Department of Water Resources.
- (5) Adjustment is made to the ground water slope at each of the three points so that it is perpendicular to the narrowest section by:
 - (a) measuring the angle, in degrees, between the line representing the narrowest cross-section and the tangent to the flow line at the narrowest cross-section,
 - (b) applying the sine of that angle to the previously determined slope to determine the adjusted slope, and
 - (c) obtaining an average of the three adjusted slopes to represent the average slope through the narrowest cross-section.
- (6) The elevation of the water surface at the narrowest crosssection is determined by interpolating between the ground water contours.
- (7) The distance to the ground water surface is computed from the top of the ground by the formula: d = 208 E, where E represents the average water level elevation of the narrowest cross-section, in feet.
- (8) The correction factors for the transmissibility for the area from the top of ground to the water surface is computed by the formula C = 24.45 d, in cubic feet per second.

- (9) The effective transmissibility is computed by the formula $Tw_e = 7,334 C$, in cubic feet per second.
- (10) Subsurface Flow is computed by multiplying the effective transmissibility by the average adjusted slope.
- (11) The computed Subsurface Flow, in cubic feet per second, is converted to acre-feet per year by multiplying it by 724.

The selected wells within the vicinity of Whittier Narrows which have been used for drawing the ground water contours are as follows:

Location No.	State No.	
2927B	2S 11W 06M018	
2927D	06K01S	3
2928	078018	3
2936	06A018	3
2936A	1s 11W 31J03s	3
2938A	2S 11W 07H1S	
2938D	05N058	3
2939	08N018	
2939B	18801	-
2939G	07R01	
	O/ROL	,
2947C	05101	,
2947F	05L018	
2947N	05P01s	-
2948	05N048	3
2948E	088029	3
2948F	08L039	3
2957H	**	

The Watermaster shall obtain measurements of ground water elevations in the spring and fall of each year when they are at their approximate high and low levels, respectively. Such measurements may be made at, but need not be limited to, all of the above listed wells.

C. Export to Lower Area

If present measuring devices on existing conduits are inadequate, the Watermaster shall install or cause to be installed adequate measuring devices to determine the amount of Export to Lower Area.

IV. ACCOUNTING

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Utilizing the appropriate measurements described in the previous portion of this Exhibit B, the Watermaster shall maintain accounts for the determination of Lower Area Annual Entitlement, the annual amount of Usable Water, Make-up Water to be delivered, Make-up Water received, the annual total amount of Usable Water and Make-up Water, the accumulated Lower Area Annual Entitlements, the accumulated amounts of Usable Water and Make-up Water received subsequent to September 30, 1963, Accrued Debit of Upper Area or Accrued Credit of Upper Area, and records necessary for accomplishing the Long-term Accounting.

In maintaining the accounting records listed above, the Watermaster shall establish the necessary accounting procedures to accomplish the recordation of data and required calculations for accomplishment of the provisions set forth in paragraph 5 of the Judgment.

A. Components of Usable Water

1. Surface Flow. Surface Flow shall be measured as set forth in Part III.A. of this exhibit to include all water other than Export to Lower Area and Subsurface Flow which passes from Upper Area to Lower Area through Whittier Narrows. When the new station to be constructed on the San Gabriel River near Parkway Bridge is completed, it shall replace the gaging station on the San Gabriel River at Beverly Boulevard, Station F263B-R. Until such new station is in operation, Surface Flow as measured at Station F263B-R shall be increased by the amount of Surface Flow which has percolated or been diverted between Station F263B-R and the point of maximum rising water. The Watermaster shall determine the quantity so percolated or diverted based upon available measurements by the Los Angeles County Flood Control District.

3. Export to Lower Area. The Watermaster shall reduce to acre-feet the meter readings on each of the conduits transporting through Whittier Narrows water diverted from surface streams in Upper Area or pumped or developed from underground sources in Upper Area. These quantities shall be used to determine Export to Lower Area except that after September 30, 1966, Export to Lower Area used for determination of Usable Water shall not exceed 23,395 acre-feet per year. (Paragraph 3(1) of this Judgment.)

B. Calculation of Usable Water

After determining the amounts of Surface Flow, Subsurface Flow and Export to Lower Area during a Water Year, as provided above, the Watermaster, in order to determine the extent to which such water constitutes the receipt of Usable Water by Lower Area during such Water Year, shall deduct from the total of such amounts, the following:

- 1. Lower Area Replenishment Water. An amount equal to the total quantity of Lower Area Replenishment Water released in Upper Area in each Water Year subsequent to September 30, 1963, less such amount, if any, as the Watermaster determines to be lost due to evaporation or transpiration prior to the receipt of such water in Lower Area;
- 2. <u>Reclaimed Water</u>. An amount equal to the total quantity of Reclaimed Water which is reclaimed by or on behalf of Lower Area Parties;
- 3. Make-up Water. An amount equal to the quantity of Make-up Water delivered to Lower Area during such Water Year, calculated as hereafter provided, to the extent included in

Surface Flow or Export to Lower Area;

- 4. Paragraph 3(1)(6) Water. An amount equal to the quantity of any water which falls within the scope of paragraph 3(1)(6) of the Judgment; and
- 5. <u>Unusable Surface Flow</u>. An amount equal to the quantity of Unusable Surface Flow, which is determined by deducting from the total outflow as measured at Stations F45B-R and F262-R: (1) Local Storm Outflow and (2) the portion of Surface Flow which has been caused to pass said stations by reason of any spreading of water in Montebello Forebay by or on behalf of Lower Area Parties.

Local Storm Outflow is a portion of local storm inflow originating in Montebello Forebay upstream from said measuring stations, the amount of which outflow is to be determined as hereinafter provided. When actual measurements of local storm inflow are not available, the amount thereof discharging to the channels of Rio Hondo or San Gabriel River within Montebello Forebay upstream from stations F45B-R and F262-R shall be estimated by correlation with the local storm inflow measured at Montebello Storm Drain, Station F181-R. Such quantities shall be estimated on the basis of the individual drainage areas of storm drain projects and the runoff per unit area determined from the Montebello Storm Drain, Station F181-R, during the particular time interval under consideration. When water is flowing out of Montebello Forebay on the surface in the Rio Hondo or San Gabriel River channels, the Watermaster shall determine Local Storm Outflow as follows:

a. Local Storm Outflow from Rio Hondo. When outflow occurs at Station F45B-R, all local storm inflow, both measured and estimated, which enters the Rio Hondo channel between that station and Upper Area shall constitute Local Storm Outflow from Rio Hondo, but the amount thereof shall not exceed the amount of

outflow at Station F45B-R for such periods.

b. Local Storm Outflow from San Gabriel River. At such times as local storm inflow does not join Surface Flow in San Gabriel River, the portion of such local storm inflow passing Station F262-R shall constitute Local Storm Outflow. In addition, at such times as Surface Flow in the San Gabriel River commingles with the local storm inflow, then the Watermaster shall determine Local Storm Outflow as follows:

- (1) Calculate the total amount of local storm inflow to the San Gabriel River during such times, but such amount to be used in the determination of Local Storm Outflow shall not exceed the amount of San Gabriel River outflow passing Station F262-R during such periods.
- (2) Calculate the Local Storm Outflow passing Station F262-R during such times, which calculation shall be based on the Surface Flow and local storm inflow to the San Gabriel River channel, giving appropriate weight to the quantities involved and the distance the respective quantities of water traverse Montebello Forebay in said channel.
- (3) These two calculations shall then be averaged arithmetically and the resulting amount shall be Local Storm Outflow from San Gabriel River.

C. Determination and Delivery of Make-up Water

1. By Additions to Surface Flow (paragraph 5(i)(1) of Judgment). The determination of the amount of Make-up Water which is delivered to Lower Area as an addition to Surface Flow shall be based upon (a) measurements of Make-up Water at the

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delivery outlet of such water upstream from Whittier Narrows,

(b) measurements of water consisting in whole or in part of

Make-up Water passing the applicable stations listed in Part

III.A.l. of this Exhibit B, and (c) such deductions from the

measurements of Make-up Water at said stations so listed as are

necessary to take into account (i) the amount of any water other

than Make-up Water included in the measurements at said stations

so listed, (ii) any losses due to evaporation or transpiration

of Make-up Water after such measurement and prior to its receipt

in Lower Area, and (iii) any percolation of Make-up Water after

such measurement and prior to the time it reaches the "narrowest
section" in Whittier Narrows.

As changing conditions may require, the Watermaster shall change the points of measurement of Make-up Water in order to obtain those measurements necessary to determine the amount of Make-up Water delivered to Lower Area Parties by means of increasing Surface Flow.

2. By Payment for Reclaimed Water (paragraph 5(i)(2) of the Judgment). The Watermaster shall determine (a) the quantity of Reclaimed Water reclaimed at the Whittier Narrows Water Reclamation Plant as it existed October 1, 1963, and which when so reclaimed shall have been passed through Whittier Narrows, and (b) the quantity, if any, of Reclaimed Water reclaimed at any future additions to said plant after September 30, 1963, and which when so reclaimed shall have been passed through Whittier Narrows. Such quantities shall be ascertained from the records of Los Angeles County Flood Control District.

Upon being advised that a payment has been made by
Upper District or Defendants to Central Municipal pursuant to
the provisions of paragraph 5(i)(2) of the Judgment, the
Watermaster shall credit Upper Area Parties with the delivery of
Make-up Water computed according to said paragraph of the

Judgment.

 3. By Deliveries to a Lower Area Party (paragraph 5(i)(3) of the Judgment). Any Make-up Water delivered directly to a Lower Area Party with the consent of Plaintiffs shall be metered and the meter records reduced to acre-feet per year. Upon being advised that a Lower Area Party has received a direct delivery of Make-up Water pursuant to the provisions of paragraph 5(i)(3) of the Judgment, the Watermaster shall credit Upper Area Parties with delivery of such Make-up Water in the Water Year in which it was so delivered.

D. Long-term Accounting

The Watermaster shall maintain a record of the annual rainfall in the San Gabriel Valley, including a running average of such rainfall, so that the Watermaster will be informed when a Long-term Accounting shall be carried out as specified in paragraph 5(h) of the Judgment, and shall thereafter perform the necessary calculations for accomplishment of the adjustment, if any, between the aggregate amount of water received compared to the aggregate entitlement for the period.

E. Water Usable for Ground Water Replenishment

With respect to any delivery of Make-up Water the Watermaster shall determine the suitability of such water for ground water replenishment. The Watermaster shall gather, insofar as readily available from public and private agencies, data relating to the quality of all categories of water, Surface Flow, Subsurface Flow, Export to Lower Area, Reclaimed Water, Lower Area Replenishment Water and Make-up Water.

REIMBURSEMENT CONTRACT

LONG BEACH v. SAN GABRIEL

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REIMBURSEMENT CONTRACT

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REIMBURSEMENT CONTRACT

THIS CONTRACT is made by and between UPPER SAN

GABRIEL VALLEY MUNICIPAL WATER DISTRICT, herein called

"Upper District", and the cities of ALHAMERA, ARCADIA,

AZUSA, COVINA, EL MONTE, GLENDORA, MONTEREY PARK, MONROVIA,

SOUTH PASADENA, and WHITTIER; BALDWIN PARK COUNTY WATER

DISTRICT, and SAN GABRIEL COUNTY WATER DISTRICT; AZUSA

AGRICULTURAL WATER COMPANY, AZUSA VALLEY WATER COMPANY,

CALIFORNIA DOMESTIC WATER COMPANY, CALIFORNIA WATER &

TELEPHONE COMPANY, COLUMBIA LAND AND WATER COMPANY, COVINA

IRRIGATING COMPANY, CROSS WATER COMPANY, DUARTE WATER COMPANY, EAST PASADENA WATER COMPANY, LTD., GLENDORA IRRIGATING

COMPANY, SAN DIMAS WATER COMPANY, SAN GABRIEL VALLEY WATER

COMPANY, SOUTHERN CALIFORNIA WATER COMPANY, SUBURBAN WATER

SYSTEMS, SUNNYSLOPE WATER COMPANY, and VALLECITO WATER

COMPANY, corporations, herein collectively called "Pumpers."

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RECITALS

- 1. The Action. In the matter of Board of Water Commissioners of the City of Long Beach, et al. v. San Gabriel Valley Water Company, et al., (L. A. Superior Court No. 722,647) the water rights of substantially all major water producers in the main San Gabriel Valley are sought to be restricted.
 - 2. Judgment. The parties named above, except City

of Whittier, are concurrently executing a Stipulation that a Judgment substantially in the form annexed hereto shall be rendered and it is anticipated that such Judgment will be rendered in the action.

3. Public Interest in Settlement. It is in the best interests of the Pumpers and in the best interests of the water users and taxpayers within the corporate boundaries of those Pumpers which are public agencies, of the consumers of those Pumpers which are utilities or mutual water companies, and of all residents and taxpayers of Upper District, that said action be settled and disposed of in accordance with the terms of said judgment in order to preserve the water supplies within Upper Area.

DEFINITIONS

- 1. "Contract Costs" -- All costs hereafter paid by
 Upper District:
 - (a) In providing Make-up Water under the terms of the judgment. In computing such cost of providing Make-up Water, any cost which Upper District shall pay which it would have paid even though it had not provided Make-up Water shall be excluded; and particularly but not exclusively, no amount which shall be paid to The Metropolitan Water District of Southern California as a condition to any past or future annexation shall be

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deemed a cost of providing Make-up Water. Such costs may include interest paid by Upper District upon money borrowed for advancements made by it or interest which would have been received by the District, but which it lost by reason of making such advancements.

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- (b) In complying with the terms of said judgment.
- (c) In keeping the records, making the determinations and collecting the moneys required by the later provisions of this contract.
- 2. "Assessable Pumpage" -- The amount of ground water produced in the applicable calendar year by or on behalf of any Pumper by pumping or extraction thereof from the Upper Area, including ground water produced under rights hereafter acquired from any source.
- 3. Common Terms With Judgment -- All terms specially defined in said judgment are used herein in the sense in which they are therein defined, and said special definitions are incorporated herein by this reference.

OPERATIVE PROVISIONS

1. Consideration for Execution. The great majority of the defendants in the action are situated in whole or in part within Upper District and pump water therein. Certain defendants, including the Cities of Alhambra, Azusa and

Monterey Park, as well as the City of Whittier which is not a defendant, lie outside Upper District. Execution of this agreement by all parties to it is essential to induce each party hereto to execute this agreement, and likewise, execution of the Stipulation for Judgment by all defendants in the action is necessary to induce each party hereto to execute this contract. Each party executes this contract in consideration of its execution by the other parties, and in consideration of the execution of the Stipulation by the parties thereto. Moreover, by this contract each party other than City of Whittier waives its right to cross-complain in the action so as to bring City of Whittier into the action as a party.

- 2. Intervention by Upper District. In consideration of the execution of this contract by Pumpers and to contribute to the physical solution of providing adequate ed. water for its inhabitants, Upper District has intervened as a defendant in the action and agrees to execute the stipulation for said judgment.
 - 3. Administration. Upper District shall administer the provisions of Paragraphs 6 through 9, below, as to all Pumpers, including additional parties hereto mentioned in Paragraph 16.

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4. <u>Covenant to Reimburse</u>. Each Pumper hereby agrees to pay to Upper District such Pumper's share of Contract

Costs allocated and determined as provided below.

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- 5. Allocation of Costs Among Pumpers. Pumpers agree among themselves, each for the benefit of all other Pumpers, to share and participate in the payment of any sums due Upper District hereunder in such proportion as the Assessable Pumpage of each Pumper bears to the total Assessable Pumpage of all Pumpers for the applicable period covered by any assessment as hereinafter provided, subject to the provisions of Paragraph 9 below.
- 6. Reports by Pumpers. Pumpers shall file under penalty of perjury the reports hereinafter specified in the form provided by Upper District, as follows:
 - (a) Time and Procedure for Filing. Each year, on or before March 1, each Pumper shall file with Upper District a written report of its extractions of water from Upper Area for the preceding calendar year containing the information set forth in subparagraph (b) of this paragraph.
 - (b) Contents of the Report. Such annual reports to Upper District shall set forth:
 - (1) The name and address of the Pumper; and
 - (2) The number of acre feet of water which was pumped or extracted from Upper Area by or on behalf of the Pumper during

the calendar year covered.

- (c) <u>Determination in Lieu of Report</u>. In the event any Pumper fails to so file such report, Upper District may make a determination of the Assessable Pumpage of such Pumper, which determination shall be final and binding.
- 7. Notice of Assessment. On or before June 1 of each year, Upper District shall serve a Notice of Assessment on each Pumper covering the preceding calendar year which will contain a statement of:
 - (a) The amount of Assessable Pumpage by each Pumper;
 - (b) A detailed statement of Contract Costs during the preceding calendar year, if any; and
 - (c) A statement of the amount of such Contract Costs which are assessable to and payable by the Pumper to whom such notice is sent.
- 8. Payment--Delinquency and Default. All assessments herein provided for shall be due and payable on the following July 31. In the event of nonpayment of any assessment, Upper District may bring an action and shall have the right to recover such assessment, together with interest thereon at the rate of 7% per annum from the date of delinquency and costs of suit, including any reasonable attorneys fees incurred.

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If, after due diligence, Upper District is unable to collect a Pumper's allocated cost, such uncollectible amount (including interest, costs and attorneys' fees) shall be prorated among and paid by the other Pumpers in the same proportions as they paid assessments for the year or years in question. Said proration shall be billed and payable with the next succeeding assessment.

9. Redetermination of Assessable Pumpage. Any
Pumper may at any time within 90 days after receipt of any
Notice of Assessment request a redetermination of the Assessable Pumpage of such Pumper or of any other Pumper or Pumpers reflected in such notice. Such request shall be addressed in writing to Upper District and shall set forth the basis of the requesting Pumper's belief that such data are incorrect. Upon the receipt of any request, the following procedures shall be undertaken by Upper District:

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(a) Notice of Request for Redetermination.

Upper District shall forthwith notify in writing any Pumper whose Assessable Pumpage has been questioned, of the fact of such request and the name of the requesting Pumper. Notice shall further be sent to all Pumpers that procedures will be undertaken pursuant to this paragraph, and shall state briefly the issues to be determined.

- (b) Availability of Records. Subsequent to such notice, the records of the Pumper whose Assessable Pumpage is subject to a request for redetermination shall be made available at reasonable hours and upon reasonable demand to Upper District, insofar as such records are relevant to a determination of the Assessable Pumpage of the Pumper during the period involved.
- (c) Investigation and Notice of Hearing.

 Upper District shall conduct an investigation and shall by written decision served on all Pumpers redetermine or affirm such Assessable Pumpage.

 Upper District may at its option set a date for hearing. In such event, at least ten days' notice in writing of said hearing date shall be given to all Pumpers.
- (d) Conduct of Hearing and Decision. If hearing be held, Upper District shall not be bound therein by strict rules of evidence, but may rely on any evidence which it deems of probative value. Any Pumper may present evidence and arguments thereat. The written decision of Upper District, with or without such hearing, shall be served on all Pumpers and shall be conclusive for purposes of this contract, unless said issue is submitted

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to a court of competent jurisdiction within 90 days from notice of such decision.

- (e) Reallocation of Contract Costs. If Assessable Pumpage is modified by any such decision, Contract Costs shall be reallocated in accordance therewith. Said reallocation shall be billed and payable with the next succeeding assessment.
- solely to the equitable allocation of Contract Costs and does not involve or constitute an admission or agreement as to the water rights of any Pumper. Execution of this contract shall not prevent any party hereto from bringing or maintaining any action or proceeding to determine rights to pump, extract or store water, or to limit or curtail any pumping, extraction or storage of water in or from Upper Area or elsewhere, except as limited by Paragraphs 1 and 16 of the Operative Provisions hereof.
- ditions in Upper Area may hereafter change to such an extent that it may become equitable to modify either the total obligation of Pumpers to Upper District hereunder or the allocation of Contract Costs. While this contract is entered into to assure Upper District of reimbursement of an amount up to its entire Contract Costs, it is not intended hereby, and this contract shall not be deemed, to prevent Upper District

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from modifying and reducing such obligation or from applying other relief which may reduce the burden on Pumpers. Without limitation upon the power of Upper District to otherwise reduce the aggregate amount payable under this contract, the following specific instances of changed conditions are contemplated:

- (a) Allocation of Portion of Burden to Taxes.

 It may at some future date appear equitable and fair to allocate all or a portion of Contract Costs to ad valorem taxes or other revenues of Upper District. In such event, Upper District may, in the discretion of its Board of Directors, allocate all or a portion of Contract Costs to such revenue sources and the remainder, if any, thereof, shall be payable under the terms of this contract.
- (b) Imposition of Pump Tax. If Upper District should acquire and exercise the right to levy a tax upon the pumping or extraction of ground water, then the aggregate of such tax shall be credited proportionally amongst Pumpers with respect to Assessable Pumpage within Upper District.
- (c) Adjudication of Rights. If all or substantially all of the water rights within Upper Area shall be adjudicated (including the rights of all Pumpers), and its natural and safe yield

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determined, then this contract shall be deemed modified to the extent that Assessable Pumpage shall include only that amount of water produced over and above the safe yield portion of adjudicated rights owned by any Pumper; provided that this subparagraph (c) shall not apply to any year in which the aggregate of all Assessable Pumpage as so modified is less than 25,000 acre feet.

- 12. Effective Date. This contract shall be effective ten (10) days after notice in writing of execution thereof by all parties, which notice shall be given to all Pumpers by Upper District, but shall cease and terminate on July 1, 1966, unless by said date (a) this contract shall have been validated as provided below, and (b) the Judgment shall have been rendered.
- 13. <u>Validation</u>. Within four months after this contract becomes effective, a proceeding or proceedings shall be instituted by Upper District in a court of competent jurisdiction by an appropriate action or actions for determination of the validity of this contract.
- 14. Term. The term of this contract shall commence upon its effective date and continue so long as the Judgment, as entered or as modified, shall remain in effect, subject, however, to the provisions of Paragraph 12 above.

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party hereunder may be served either personally or by mail. If served by mail, such notice shall be mailed in the County of Los Angeles, State of California, by certified mail, postage prepaid, return receipt requested, or by registered mail, and shall be addressed to the party to be served at its address as set forth below, or (in the case of Upper District) at such other address as it may have last specified in writing to the Pumper or Pumpers involved for the service of notices hereunder, or (in the case of a Pumper) at such other address as it may have last specified in writing to Upper District for the service of notices hereunder. Any notice so served by mail shall be deemed to have been served upon the first business day (excluding Saturdays, Sundays and holidays) after such mailing.

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16. Additional Parties. In addition to Pumpers and their successors and assigns referred to in Paragraph 17 below, any other person or entity who or which shall pump or extract water in or from Upper Area (herein referred to as an "additional party"), may become a party to this contract, provided (a) Upper District shall give its written consent thereto, and (b) no Pumper or additional party shall serve upon Upper District its written objection thereto. If Upper District shall give its written consent to execution of this contract by an applying additional party, it shall

then give written notice of such application and consent by Upper District to each Pumper and each additional party, and if within thirty (30) days after such notice no Pumper or additional party shall have served upon Upper District its written objection to execution of this contract by the applying additional party, such additional party's application shall be deemed to have been accepted and it may become a party to this contract by delivery to Upper District of a duly executed instrument in writing stating that such person or entity joins in and becomes a party to this contract.

Any additional party so joining shall become bound by all obligations of this contract, becoming due or which should be performed within the terms of this contract on and after the ensuing January 1. Such obligations include the duty to make the report of extractions during the preceding calendar year (i.e., the year in which the contract is executed) required by Paragraph 6, and to make the payment based upon such extractions as required by Paragraph 5, provided, however, that such additional party shall have no liability under Paragraph 8 with respect to any nonpayments of an assessment based upon extractions by a Pumper or other additional party prior to the year in which such additional party joins in this contract.

As to each Pumper who executes this contract after it becomes effective, Upper District agrees that for a

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period of 90 days after giving its said written consent, it will bring no action against such additional party to limit or define its rights to pump water in or from Upper Area. Further, if more than one such Pumper shall become a party to this agreement at the same time as any other pumper, each will execute and shall be deemed to have executed this contract and to have joined therein in consideration of the joinder in this contract by the other or others concurrently joining in this contract.

Any such additional party shall be deemed a Pumper for all purposes of this agreement.

inure to the benefit of and bind the successors in ownership of the water rights of the parties. If any Pumper shall sell or transfer or agree to sell or transfer its water rights in Upper Area or any part of such water rights, such Pumper shall require as a condition of any such sale, transfer or agreement that the purchaser or transferee, if not already a party to this contract, shall execute this contract and become a party thereto. Upon a full transfer of such rights by a Pumper and assumption by the assignee as above provided, the assigning Pumper shall be discharged of obligation hereunder. If such Pumper fails to obtain such assumption (except in cases of a transfer under order of court or by operation of law) the assigning Pumper shall

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remain bound by the contract and production of water by said assignee by the exercise of the right assigned shall be treated as production by such Pumper.

18. Execution in Counterparts. This contract may be executed in counterparts (each counterpart being an exact copy or duplicate of the original) and all counterparts collectively shall be considered as constituting one complete contract.

IN WITNESS WHEREOF this contract is executed by the undersigned by its duly authorized officer.

	Dated:	-	V b	·•
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APPENDIX D Main San Gabriel Basin Adjudication

SUPERIOR COURT OF THE STATE OF CALIFORNIA FOR THE COUNTY OF LOS ANGELES

UPPER SAN GABRIEL VALLEY
MUNICIPAL WATER DISTRICT

Plaintiff,

No. 924128

vs.

CITY OF ALHAMBRA, et al,

Defendants.

AMENDED JUDGMENT (and Exhibits Thereto),

Honorable Florence T. Pickard Assigned Judge Presiding

Original Judgment Signed and Filed: December 29, 1972; Entered: January 4, 1973 Book 6741, Page 197

JUDGMENT AS AMENDED AUGUST 24, 1989

1	Ralph B. Helm Suite 214
2	4605 Lankershim Boulevard
3	North Hollywood, CA 91602 Telephone (818) 769-2002
4	Attorney for Watermaster
5	
6	
7	
8	SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES
9	
10	UPPER SAN GABRIEL VALLEY) MUNICIPAL WATER DISTRICT,) No. 924128
11	Plaintiff,) AMENDED JUDGMENT
12) (And Exhibits Thereto)
13	vs.)
14	CITY OF ALHAMBRA, et al.,
15	Defendants.)
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21	<u>a</u>
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24	
25	HONORABLE FLORENCE T. PICKARD
26	Assigned Judge Presiding
27	DEPARTMENT 38
28	August 24, 1989

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Ralph B. Helm Suite 214 4605 Lankershim Boulevard North Hollywood, CA 91602 Telephone (818) 769-2002 Attorney for Watermaster SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT,

MUNICIPAL WATER DISTRICT,) No. 924128

Plaintiff,) AMENDED JUDGMENT
)

vs.)

CITY OF ALHAMBRA, et al.,)

CITY OF ALHAMBRA, et al.,
Defendants.

Hearing: August 24, 1989 Department 38, 9:00 A.M.

The Petition of the MAIN SAN GABRIEL BASIN WATERMASTER for this AMENDED JUDGMENT herein, came on regularly for hearing in this Court before the HONORABLE FLORENCE T. PICKARD, ASSIGNED JUDGE PRESIDING, on August 24, 1989; Ralph B. Helm appeared as attorney for Watermaster - Petitioner; and good cause appearing, the following ORDER and AMENDED JUDGMENT are, hereby, made:

I. INTRODUCTION

1. Pleadings, Parties, and Jurisdiction. The complaint herein was filed on January 2, 1968, seeking an adjudication of water rights. By amendment of said complaint and dismissals of certain parties, said adjudication was limited to the Main San Gabriel Basin and its Relevant Watershed. Substantially all

- 2. Stipulation for Entry of Judgment. A substantial majority of the parties, by number and by quantity of rights herein Adjudicated, Stipulated for entry of a Judgment in substantially the form of the original Judgment herein.
- 3. <u>Lis Pendens.</u> (New) A <u>Lis Pendens</u> was recorded August 20, 1970, as Document 2650, in Official Records of Los Angeles County, California, in Book M 3554, Page 866.
- 4. Findings and Conclusions. (Prior Judgment Section 3)
 Trial was had before the Court, sitting without a jury, John
 Shea, Judge Presiding, commencing on October 30, 1972, and
 Findings of Fact and Conclusions of Law have been entered
 herein.
- 5. <u>Judgment.</u> (New) Judgment (and Exhibits Thereto),
 Findings of Fact and Conclusions of Law (and Exhibits thereto),
 Order Appointing Watermaster, and Initial Watermaster Order were
 signed and filed December 29, 1972, and Judgment was entered
 January 4, 1973, in Book 6791, Page 197.
- 6. <u>Intervention After Judgment.</u> (New) Certain defendants have, pursuant to the Judgment herein and the Court's continuing jurisdiction, intervened and appeared herein after entry of Judgment.

- Amendments to Judgment. (New) The original Judgment herein was previously amended on March 29, 1979, by: (1) adding definition (r [1]) thereto, (2) amending definition (bb) therein, (3) adding Exhibit "K" thereto, (4) adding Sections 14.5 and 16.5 thereto, and (5) amending Sections 37(b), 37(c), 37(d), and Section 47 therein; it was again amended on December 21, 1979, by amending Section 38(c) thereof; again amended on February 21, 1980, by amending Section 24 thereof; again amended on September 12, 1980, by amending Sections 35(a), 37(a), and 38(a); again amended on December 22, 1987, by adding Section 37(e) thereto; and last amended on July 22, 1988 by amending Section 37(e) thereof and Ordering an Amended Judgment herein.
- 8. Transfers. (New) Since the entry of Judgment herein there have been numerous transfers of Adjudicated water rights. To the date hereof, said transfers are reflected in Exhibits "C", "D", and "E".
- 9. Producers and Their Designees. (New) The current status of Producers and their Designees is shown on Exhibit "L".
- 10. <u>Definitions</u>. (Prior Judgment Section 4) As used in this Judgment, the following terms shall have the meanings herein set forth:
- (a) <u>Base Annual Diversion Right</u> -- The average annual quantity of water which a Diverter is herein found to have the right to Divert for Direct Use.
- (b) <u>Direct Use</u> --Beneficial use of water other than for spreading or Ground Water recharge.
- (c) <u>Divert or Diverting</u> -- To take waters of any surface stream within the Relevant Watershed.

- (d) <u>Diverter</u> -- Any party who Diverts.
- (e) Elevation -- Feet above mean sea level.
- (f) <u>Fiscal Year</u> -- A period July 1 through June 30, following.
- (g) <u>Ground Water</u> -- Water beneath the surface of the ground and within the zone of saturation.
- (h) <u>Ground Water Basin</u> -- An interconnected permeable geologic formation capable of storing a substantial Ground Water supply.
- (i) Integrated Producer -- Any party that is both a Pumper and a Diverter, and has elected to have its rights adjudicated under the optional formula provided in Section 18 of this Judgment.
- (j) <u>In-Lieu Water Cost</u> -- The differential between a Producer's non-capital cost of direct delivery of Supplemental Water and the cost of Production of Ground Water (including depreciation on Production facilities) to a particular Producer who has been required by Watermaster to take direct delivery of Supplemental Water in lieu of Ground Water.
- (k) <u>Key Well</u> -- Baldwin Park Key Well, being elsewhere designated as State Well No. 1S/10W-7R2, or Los Angeles County Flood Control District Well No. 3030-F. Said well has a ground surface Elevation of 386.7.
- (1) <u>Long Beach Case</u> -- Los Angeles Superior Court
 Civil Action No. 722647, entitled, "<u>Long Beach, et al.</u>, v. <u>San</u>
 <u>Gabriel Valley Water Company, et al.</u>"
- (m) Main San Gabriel Basin or Basin -- The Ground Water Basin underlying the area shown as such on Exhibit "A".

(n) <u>Make-up Obligation</u> -- The total cost of meeting the obligation of the Basin to the area at or below Whittier Narrows, pursuant to the Judgment in the Long Beach Case.

- (0) <u>Minimal Producer</u> -- Any party whose Production in any Fiscal Year does not exceed five (5) acre feet.
- (p) Natural Safe Yield -- The quantity of natural water supply which can be extracted annually from the Basin under conditions of long term average annual supply, net of the requirement to meet downstream rights as determined in the Long Beach Case (exclusive of Pumped export), and under cultural conditions as of a particular year.
- (q) Operating Safe Yield -- The quantity of water which the Watermaster determines hereunder may be Pumped from the Basin in a particular Fiscal Year, free of the Replacement Water Assessment under the Physical Solution herein.
- (r) Overdraft -- A condition wherein the total annual Production from the Basin exceeds the Natural Safe Yield thereof.
- (s) Overlying Rights -- (Prior Judgment Section 4 (r) [1]) The right to Produce water from the Basin for use on Overlying Lands, which rights are exercisable only on specifically defined Overlying Lands and which cannot be separately conveyed or transferred apart therefrom.
- (t) Physical Solution -- (Prior Judgment Section 4 (s)) The Court decreed method of managing the waters of the Basin so as to achieve the maximum utilization of the Basin and its water supply, consistent with the rights herein declared.
 - (u) Prescriptive Pumping Right -- (Prior Judgment

Section 4 (t)) The highest continuous extractions of water by a Pumper from the Basin for beneficial use in any five (5) consecutive years after commencement of Overdraft and prior to filing of this action, as to which there has been no cessation of use by that Pumper during any subsequent period of five (5) consecutive years, prior to the said filing of this action.

- (v) <u>Produce or Producing</u> -- (Prior Judgment Section 4(u)) To Pump or Divert water.
- (w) Producer -- (Prior Judgment Section 4 (v)) A
 party who Produces water.
- (x) <u>Production</u> -- (Prior Judgment Section 4 (w)) The annual quantity of water Produced, stated in acre feet.
- (y) <u>Pump or Pumping</u> -- (Prior Judgment Section 4
 (x)) To extract Ground Water from the Basin by Pumping or any other method.
- (z) <u>Pumper</u> -- (Prior Judgment Section 4 (y)) Any party who Pumps water.
- (aa) <u>Pumper's Share</u> -- (Prior Judgment Section 4 (z))

 A Pumper's right to a percentage of the entire Natural Safe

 Yield, Operating Safe Yield and appurtenant Ground Water

 storage.
- (bb) Relevant Watershed -- (Prior Judgment Section 4(aa)) That portion of the San Gabriel River watershed tributary to Whittier Narrows which is shown as such on Exhibit "A", and the exterior boundaries of which are described in Exhibit "B".
- (cc) Replacement Water -- (Prior Judgment Section 4
 (bb)) Water purchased by Watermaster to replace:

(1) Production in excess of a Pumper's Share of Operating Safe Yield; (2) The consumptive use portion resulting from the exercise of an Overlying Right; and (3) Production in excess of a Diverter's right to Divert for Direct Use.

- (dd) Responsible Agency -- (Prior Judgment Section 4 (cc)) The municipal water district which is the normal and appropriate source from whom Watermaster shall purchase Supplemental Water for replacement purposes under the Physical Solution, being one of the following:
 - (1) <u>Upper District</u> -- Upper San Gabriel
 Valley Municipal Water District, a member public agency of
 The Metropolitan Water District of Southern California
 (MWD).
 - (2) <u>San Gabriel District</u> -- San Gabriel Valley Municipal Water District, which has a direct contract with the State of California for State Project Water.
 - (3) Three Valleys District -- Three Valleys
 Municipal Water District, formerly, "Pomona Valley
 Municipal Water District", a member public agency of MWD.
- (ee) <u>Stored Water</u> -- (Prior Judgment Section 4 (dd))
 Supplemental Water stored in the Basin pursuant to a contract
 with Watermaster as authorized by Section 34(m).
- (ff) <u>Supplemental Water</u> -- (Prior Judgment Section 4 (ee)) Nontributary water imported through a Responsible Agency.
- (gg) <u>Transporting Parties</u> -- (Prior Judgment Section 4 (ff)) Any party presently transporting water (i.e., during the 12 months immediately preceding the making of the findings herein) from the Relevant Watershed or Basin to an area outside

thereof, and any party presently or hereafter having an interest in lands or having a service area outside the Basin or Relevant Watershed contiguous to lands in which it has an interest or a service area within the Basin or Relevant Watershed. Division by a road, highway, or easement shall not interrupt contiguity. Said term shall also include the City of Sierra Madre, or any party supplying water thereto, so long as the corporate limits of said City are included within one of the Responsible Agencies and if said City, in order to supply water to its corporate area from the Basin, becomes a party to this action bound by this Judgment.

- (hh) <u>Water Level</u> -- (Prior Judgment Section 4 (gg))
 The measured Elevation of water in the Key Well, corrected for any temporary effects of mounding caused by replenishment or local depressions caused by Pumping.
- (ii) Year -- (Prior Judgment Section 4 (hh)) A calendar year, unless the context clearly indicates a contrary meaning.
- 11. Exhibits. (Prior Judgment Section 5) The following exhibits are attached to this Judgment and incorporated herein by this reference:

Exhibit "A" -- Map entitled "San Gabriel River Watershed Tributary to Whittier Narrows", showing the boundaries and relevant geologic and hydrologic features in the portion of the watershed of the San Gabriel River lying upstream from Whittier Narrows.

Exhibit "B" -- Boundaries of Relevant Watershed.

Exhibit "C" -- Table Showing Base Annual Diversion

Rights of Certain Diverters.

Exhibit "D" -- Table Showing Prescriptive Pumping Rights and Pumper's Share of Each Pumper.

Exhibit "E" -- Table Showing Production Rights of Each Integrated Producer.

Exhibit "F" -- Table Showing Special Category Rights.

Exhibit "G" -- Table Showing Non-consumptive Users.

Exhibit "H" -- Watermaster Operating Criteria.

Exhibit "J" -- Puente Narrows Agreement.

Exhibit "K" -- Overlying Rights, Nature of Overlying Right, Description of Overlying Lands to which Overlying Rights are Appurtenant, Producers Entitled to Exercise Overlying Rights and their Respective Consumptive Use Portions, and Map of Overlying Lands.

Exhibit "L" -- (New) List of Producers And Their Designees, as of June 1988.

Exhibit "M" -- (New) Watermaster Members, Officers and Staff, Including Calendar Year 1989.

II. DECREE

NOW, THEREFORE, IT IS HEREBY DECLARED, ORDERED, ADJUDGED AND DECREED:

A. <u>DECLARATION OF HYDROLOGIC CONDITIONS</u>

12. <u>Basin as Common Source of Supply.</u> (Prior Judgment Section 6) The area shown on Exhibit "A" as Main San Gabriel Basin overlies a Ground Water basin. The Relevant Watershed is the watershed area within which rights are herein adjudicated. The waters of the Basin and Relevant Watershed constitute a common source of natural water supply to the parties herein.

- 13. <u>Determination of Natural Safe Yield</u>. (Prior Judgment Section 7) The Natural Safe Yield of the Main San Gabriel Basin is found and declared to be one hundred fifty-two thousand seven-hundred (152,700) acre feet under Calendar Year 1967 cultural conditions.
- 14. Existence of Overdraft. (Prior Judgment Section 8)

 In each and every Calendar Year commencing with 1953, the Basin has been and is in Overdraft.

B. <u>DECLARATION OF RIGHTS</u>

- 15. <u>Prescription</u>. (Prior Judgment Section 9) The use of water by each and all parties and their predecessors in interest has been open, notorious, hostile, adverse, under claim of right, and with notice of said overdraft continuously from January 1, 1953 to January 4, 1973. The rights of each party herein declared are prescriptive in nature. The following aggregate consequences of said prescription within the Basin and Relevant Watershed are hereby declared:
 - (a) Prior Prescription. Diversions within the Relevant Watershed have created rights for direct consumptive use within the Basin, as declared and determined in Sections 16 and 18 hereof, which are of equal priority <u>inter</u> se, but which are prior and paramount to Pumping Rights in the Basin.
 - (b) Mutual Prescription. The aggregate Prescriptive Pumping Rights of the parties who are Pumpers now exceed, and for many years prior to filing of this action, have exceeded, the Natural Safe Yield of the Basin. By reason of said condition, all rights of said Pumpers are declared

to be mutually prescriptive and of equal priority, <u>inter</u> se.

- Thereto. By reason of said Overdraft and mutual Prescription, the entire Natural Safe Yield of the Basin, the Operating Safe Yield thereof and the appurtenant rights to Ground Water storage capacity of the Basin are owned by Pumpers in undivided Pumpers' Shares as hereinafter individually declared, subject to the control of Watermaster, pursuant to the Physical Solution herein decreed. Nothing herein shall be deemed in derogation of the rights to spread water pursuant to rights set forth in Exhibit "G".
- of the aforesaid prior and paramount prescriptive water rights of Diverters to Divert for Direct Use stream flow within the Relevant Watershed are hereby declared and found in terms of Base Annual Diversion Right as set forth in Exhibit "C". Each Diverter shown on Exhibit "C" shall be entitled to Divert for Direct Use up to two hundred percent (200%) of said Base Annual Diversion Right in any one (1) Fiscal Year; provided that the aggregate quantities of water Diverted in any consecutive ten (10) Fiscal Year period shall not exceed ten (10) times such Diverter's Base Annual Diversion Right.
- 17. Ground Water Rights. (Prior Judgment Section 11) The Prescriptive Pumping Right of each Pumper, who is not an Integrated Producer, and his Pumper's Share are declared as set forth in Exhibit "D".

- 18. Optional Integrated Production Rights. (Prior Judgment Section 12) Those parties listed on Exhibit "E" have elected to be treated as Integrated Producers. Integrated Production Rights have two (2) historical components:
 - (1) a fixed component based upon historic Diversions for Direct Use; and
 - (2) a mutually prescriptive Pumper's Share component based upon Pumping during the period 1953 through 1967.

Assessment and other Watermaster regulation of the rights of such parties shall relate to and be based upon each such component. So far as future exercise of such rights is concerned, however, the gross quantity of the aggregate right in any Fiscal Year may be exercised, in the sole discretion of such party, by either Diversion or Pumping or any combination or apportionment thereof; provided, that for Assessment purposes the first water Produced in any Fiscal Year (other than "carry-over", under Section 49 hereof) shall be deemed an exercise of the Diversion component, and any Production over said quantity shall be deemed Pumped water, regardless of the actual method of Production.

- 19. Special Category Rights. (Prior Judgment Section 13)
 The parties listed on Exhibit "F" have water rights in the
 Relevant Watershed which are not ordinary Production rights.
 The nature of each such right is as described in Exhibit "F".
- 20. <u>Non-consumptive Practices</u>. (Prior Judgment Section 14) Certain Producers have engaged in Water Diversion and spreading practices which have caused such Diversions to have a

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27 28 non-consumptive or beneficial impact upon the aggregate water supply available in the Basin. Said parties, and a statement of the nature of their rights, uses and practices, are set forth in Exhibit "G". The Physical Solution decreed herein, and particularly its provisions for Assessments, shall not apply to such non-consumptive uses. Watermaster may require reports on the operations of said parties.

Overlying Rights. (Prior Judgment Section 14.5) Producers listed in Exhibit "K" hereto were not parties herein at the time of the original entry of Judgment herein. They have exercised in good faith Overlying Rights to Produce water from the Basin during the periods subsequent to the entry of Judgment herein and have by self-help initiated or maintained appurtenant Overlying Rights. Such rights are exercisable without quantitative limit only on specifically described Overlying Land and cannot be separately conveyed or transferred apart therefrom. As to such rights and their exercise, the owners thereof shall become parties to this action and be subject to Watermaster Replacement Water Assessments under Section 45 (b) hereof, sufficient to purchase Replenishment Water to offset the net consumptive use of such Production and practices. addition, the gross amount of such Production for such overlying use shall be subject to Watermaster Administrative Assessments under Section 45 (a) hereof and the consumptive use portion of such Production for overlying use shall be subject to Watermaster's In-Lieu Water Cost Assessments under Section 45 (d) hereof. The Producers presently entitled to exercise Overlying Rights, a description of the Overlying Land to which

1 Overlying Rights are appurtenant, the nature of use and the 2 consumptive use portion thereof are set forth in Exhibit "K" 3 4 5 6 7 8 9 10 11 12 13

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hereto. Watermaster may require reports and make inspections of the operations of said parties for purposes of verifying the uses set forth in said Exhibit "K", and, in the event of a . material change, to redetermine the net amount of consumptive use by such parties as changed in the exercise of such Overlying Rights. Annually, during the first two (2) weeks of June in each Calendar Year, such Overlying Rights Producers shall submit to Watermaster a verified statement as to the nature of the then current uses of said Overlying Rights on said Overlying Lands for the next ensuing Fiscal Year, whereupon Watermaster shall either affirm the prior determination or redetermine the net amount of the consumptive use portion of the exercise of such Overlying Right by said Overlying Rights Producer.

C. INJUNCTION

22. Injunction Against Unauthorized Production. Judgment Section 15) Effective July 1, 1973, each and every party, its officers, agents, employees, successors and assigns, to whom rights to waters of the Basin or Relevant Watershed have been declared and decreed herein is ENJOINED AND RESTRAINED from Producing water for Direct Use from the Basin or the Relevant Watershed except pursuant to rights and Pumpers' Shares herein decreed or which may hereafter be acquired by transfer pursuant to Section 55, or under the provisions of the Physical Solution in this Judgment and the Court's continuing jurisdiction, provided that no party is enjoined from Producing up to five (5) acre feet per Fiscal Year.

Page 14

- 23. <u>Injunction re Non-consumptive Uses.</u> (Prior Judgment Section 16) Each party listed in Exhibit "G", its officers, agents, employees, successors and assigns, is ENJOINED AND RESTRAINED from materially changing said non-consumptive method of use.
- Thereof To Watermaster. (Prior Judgment Section 16.5) Each party listed in Exhibit "K", its officers, agents, employees, successors and assigns, is ENJOINED AND RESTRAINED from materially changing said overlying uses at any time without first notifying Watermaster of the intended change of use, in which event Watermaster shall promptly redetermine the consumptive use portion thereof to be effective after such change.
- 25. Injunction Against Unauthorized Recharge. (Prior Judgment Section 17) Each party, its officers, agents, employees, successors and assigns, is ENJOINED AND RESTRAINED from spreading, injecting or otherwise recharging water in the Basin except pursuant to: (a) an adjudicated non-consumptive use, or (b) consent and approval of or Cyclic Storage Agreement with Watermaster, or (c) subsequent order of this Court.
- 26. Injunction Against Transportation From Basin or Relevant Watershed. (Prior Judgment Section 18) Except upon further order of Court, all parties, other than Transporting Parties and MWD in its exercise of its Special Category Rights, to the extent authorized therein, are ENJOINED AND RESTRAINED from transporting water hereafter Produced from the Relevant Watershed or Basin outside the areas thereof. For purposes of

lies chiefly within the Basin shall be deemed entirely used within the Basin. Transporting Parties are entitled to continue to transport water to the extent that any Production of water by any such party does not violate the injunctive provisions contained in Section 22 hereof; provided that said water shall be used within the present service areas or corporate or other boundaries and additions thereto so long as such additions are contiguous to the then existing service area or corporate or other boundaries; except that a maximum of ten percent (10%) of use in any Fiscal Year may be outside said then existing service areas or corporate or other boundaries.

this Section, water supplied through a city water system which

D. CONTINUING JURISDICTION

- 27. Jurisdiction Reserved. (Prior Judgment Section 19)
 Full jurisdiction, power and authority are retained by and reserved to the Court for purposes of enabling the Court upon application of any party or of the Watermaster, by motion and upon at least thirty (30) days notice thereof, and after hearing thereon, to make such further or supplemental orders or directions as may be necessary or appropriate for interim operation before the Physical Solution is fully operative, or for interpretation, enforcement or carrying out of this Judgment, and to modify, amend or amplify any of the provisions of this Judgment or to add to the provisions thereof consistent with the rights herein decreed. Provided, that nothing in this paragraph shall authorize:
 - (1) modification or amendment of the quantities specified in the declared rights of any party;

 (2) modification or amendment of the manner of exercise of the Base Annual Diversion Right or Integrated Production Right of any party; or

(3) the imposition of an injunction prohibiting transportation outside the Relevant Watershed or Basin as against any Transporting Party transporting in accordance with the provisions of this Judgment or against NWD as to its Special Category Rights.

E. WATERMASTER

- 28. Watermaster to Administer Judgment. (Prior Judgment Section 20) A Watermaster comprised of nine (9) persons, to be nominated as hereinafter provided and appointed by the Court, shall administer and enforce the provisions of this Judgment and any subsequent instructions or orders of the Court thereunder.
- 29. Qualification, Nomination and Appointment. (Prior Judgment Section 21) The nine (9) member Watermaster shall be composed of six (6) Producer representatives and three (3) public representatives qualified, nominated and appointed as follows:
 - (a) Qualification. Any adult citizen of the State of California shall be eligible to serve on Watermaster; provided, however, that no officer, director, employee or agent of Upper District or San Gabriel District shall be qualified as a Producer member of Watermaster.
 - (b) Nomination of Producer Representatives. A meeting of all parties shall be held at the regular meeting of Watermaster in November of each year, at the offices of Watermaster. Nomination of the six (6) Producer

representatives shall be by cumulative voting, in person or by proxy, with each Producer entitled to one (1) vote for each one hundred (100) acre feet, or portion thereof, of Base Annual Diversion Right or Prescriptive Pumping Right or Integrated Production Right.

- (c) Nomination of Public Representatives. On or before the regular meeting of Watermaster in November of each year, the three (3) public representatives shall be nominated by the boards of directors of Upper District (which shall select two [2]) and San Gabriel District (which shall select one [1]). Said nominees shall be members of the board of directors of said public districts.
- (d) Appointment. All Watermaster nominations shall be promptly certified to the Court, which will in ordinary course confirm the same by an appropriate order appointing said Watermaster; provided, however, that the Court at all times reserves the right and power to refuse to appoint, or to remove, any member of Watermaster.
- 30. Term and Vacancies. (Prior Judgment Section 22) Each member of Watermaster shall serve for a one (1) year term commencing on January 1, following his appointment, or until his successor is appointed. In the event of a vacancy on Watermaster, a successor shall be nominated at a special meeting to be called by Watermaster within ninety (90) days (in the case of a Producer representative) or by action of the appropriate district board of directors (in the case of a public representative).
 - 31. Quorum. (Prior Judgment Section 23) Five (5) members

required:

(a) to approve the purchase, spreading or injection of water for Ground Water recharge, or
(b) to enter in any Agreement pursuant to Section
34 (m) hereof.
32. Compensation. (Prior Judgment Section 24) Each
Watermaster member shall receive compensation of One Hundred
Dollars (\$100.00) per day for each day's attendance at meetings

of Watermaster or for each day's service rendered as a

Watermaster member at the request of Watermaster, together with

any expenses incurred in the performance of his duties required

or authorized by Watermaster. No member of the Watermaster

rendered by him to Watermaster, other than the compensation

shall be employed by or compensated for professional services

herein provided, and any authorized travel or related expense.

of the Watermaster shall constitute a quorum for the transaction

of affairs of the Watermaster. Action by the affirmative vote

of five (5) members shall constitute action by Watermaster,

except that the affirmative vote of six (6) members shall be

- 33. Organization. (Prior Judgment Section 25) At its first meeting in each year, Watermaster shall elect a chairman and a vice chairman from its membership. It shall also select a secretary, a treasurer and such assistant secretaries and assistant treasurers as may be appropriate, any of whom may, but need not be, members of Watermaster.
 - (a) <u>Minutes</u>. Minutes of all Watermaster meetings shall be kept which shall reflect all actions taken by Watermaster. Draft copies thereof shall be furnished to

any party who files a request therefor in writing with Watermaster. Said draft copies of minutes shall constitute notice of any Watermaster action therein reported; failure to request copies thereof shall constitute waiver of notice.

- (b) Regular Meetings. Watermaster shall hold regular meetings at places and times to be specified in Watermaster's rules and regulations to be adopted by Watermaster. Notice of the scheduled or regular meetings of Watermaster and of any changes in the time or place thereof shall be mailed to all parties who shall have filed a request therefor in writing with Watermaster.
- Watermaster may be called at any time by the chairman or vice chairman or by any three (3) members of Watermaster by written notice delivered personally or mailed to each member of Watermaster and to each party requesting notice, at least twenty-four (24) hours before the time of each such meeting in the case of personal delivery, and forty-eight (48) hours prior to such meeting in the case of mail. The calling notice shall specify the time and place of the special meeting and the business to be transacted at such meeting. No other business shall be considered at such meeting.
- (d) Adjournments. Any meeting of Watermaster may be adjourned to a time and place specified in the order of adjournment. Less than a quorum may so adjourn from time to time. A copy of the order or notice of adjournment

shall be conspicuously posted on or near the door of the place where the meeting was held within twenty-four (24) hours after adoption of the order of adjournment.

- 34. Powers and Duties. (Prior Judgment Section 26)
 Subject to the continuing supervision and control of the Court,
 Watermaster shall have and may exercise the following express
 powers, and shall perform the following duties, together with
 any specific powers, authority and duties granted or imposed
 elsewhere in this Judgment or hereafter ordered or authorized by
 the Court in the exercise of its continuing jurisdiction.
 - (a) Rules and Regulations. To make and adopt any and all appropriate rules and regulations for conduct of Watermaster affairs. A copy of said rules and regulations and any amendments thereof shall be mailed to all parties.
 - (b) Acquisition of Facilities. To purchase, lease, acquire and hold all necessary property and equipment; provided, however, that Watermaster shall not acquire any interest in real property in excess of year-to-year tenancy for necessary quarters and facilities.
 - (c) Employment of Experts and Agents. To employ such administrative personnel, engineering, geologic, accounting, legal or other specialized services and consulting assistants as may be deemed appropriate in the carrying out of its powers and to require appropriate bonds from all officers and employees handling Watermaster funds.
 - (d) <u>Measuring Devices</u>, etc. To cause parties, pursuant to uniform rules, to install and maintain in good

operating condition, at the cost of each party, such necessary measuring devices or meters as may be appropriate; and to inspect and test any such measuring device as may be necessary.

- (e) <u>Assessments</u>. To levy and collect all Assessments specified in the Physical Solution.
- (f) <u>Investment of Funds</u>. To hold and invest any and all funds which Watermaster may possess in investments authorized from time to time for public agencies in the State of California.
- (g) <u>Borrowing</u>. To borrow in anticipation of receipt of Assessment proceeds an amount not to exceed the annual amount of Assessments levied but uncollected.
- (h) <u>Purchase of and Recharge with Supplemental Water</u>.

 To purchase Supplemental Water and to introduce the same into the Basin for replacement or cyclic storage purposes, subject to the affirmative vote of six (6) members of Watermaster.
- (i) <u>Contracts</u>. To enter into contracts for the performance of any administrative powers herein granted, subject to approval of the Court.
- (j) Cooperation With Existing Agencies. To act jointly or cooperate with agencies of the United States and the State of California or any political subdivision, municipality or district to the end that the purposes of the Physical Solution may be fully and economically carried out. Specifically, in the event Upper District has facilities available and adequate to accomplish any of the

administrative functions of Watermaster, consideration shall be given to performing said functions under contract with Upper District in order to avoid duplication of facilities.

- (k) Assumption of Make-up Obligation. Watermaster shall assume the Make-up Obligation for and on behalf of the Basin.
- (m) Water Quality. Water quality in the Basin shall be a concern of Watermaster, and all reasonable steps shall be taken to assist and encourage appropriate regulatory agencies to enforce reasonable water quality regulations affecting the Basin, including regulation of solid and liquid waste disposal.
- (n) Cyclic Storage Agreements. To enter into appropriate contracts, to be approved by the Court, for utilization of Ground Water storage capacity of the Basin for cyclic or regulatory storage of Supplemental Water by parties and non-parties, for subsequent recovery or Watermaster credit by the storing entity, pursuant to uniform rules and conditions, which shall include provision for:
 - (1) Watermaster control of all spreading or injection and extraction scheduling and procedures for such stored water;
 - (2) calculation by Watermaster of any special costs, damages or burdens resulting from such operations;
 - (3) determination by Watermaster of, and

accounting for, all losses in stored water, assuming that such stored water floats on top of the Ground Water supplies, and accounting for all losses of water which otherwise would have replenished the Basin, with priorities being established as between two or more such contractors giving preference to parties over non-parties; and

- (4) payment to Watermaster for the benefit of the parties hereto of all special costs, damages or burdens incurred (without any charge, rent, assessment or expense as to parties hereto by reason of the adjudicated proprietary character of said storage rights, nor credit or offset for benefits resulting from such storage); provided, that no party shall have any direct interest in or control over such contracts or the operation thereof by reason of the adjudicated right of such party, the Watermaster having sole custody and control of all Ground Water storage rights in the Basin pursuant to the Physical Solution herein, and subject to review of the Court.
- (o) <u>Notice List</u>. Maintain a current list of party designees to receive notice hereunder, in accordance with Section 54 hereof.
- 35. Policy Decisions -- Procedure. (Prior Judgment Section 27) It is contemplated that Watermaster will exercise discretion in making policy decisions relating to Basin management under the Physical Solution decreed herein. In order to assure full participation and opportunity to be heard for

those affected, no policy decision shall be made by Watermaster until thirty (30) days after the question involved has been raised for discussion at a Watermaster meeting and noted in the draft of minutes thereof.

- 36. Reports. (Prior Judgment Section 28) Watermaster shall annually file with the Court and mail to the parties a report of all Watermaster activities during the preceding year, including an audited statement of all accounts and financial activities of Watermaster, summary reports of Diversions and Pumping, and all other pertinent information. To the extent practical, said report shall be mailed to all parties on or before November 1.
- 37. Review Procedures. (Prior Judgment Section 29)
 Any action, decision, rule or procedure of Watermaster (other than a decision establishing Operating Safe Yield, see Section 43[c]) shall be subject to review by the Court on its own motion or on timely motion for an Order to Show Cause by any party, as follows:
 - (a) Effective Date of Watermaster Action. Any order, decision or action of Watermaster shall be deemed to have occurred on the date that written notice thereof is mailed. Mailing of draft copies of Watermaster minutes to the parties requesting the same shall constitute notice to all such parties.
 - (b) Notice of Motion. Any party may, by a regularly noticed motion, petition the Court for review of said Watermaster's action or decision. Notice of such motion shall be mailed to Watermaster and all parties. Unless so

 ordered by the Court, such petition shall not operate to stay the effect of such Watermaster action.

- (c) <u>Time for Motion</u>. Notice of motion to review any Watermaster action or decision shall be served and filed within ninety (90) days after such Watermaster action or decision.
- (d) <u>De Novo Nature of Proceeding</u>. Upon filing of such motion for hearing, the Court shall notify the parties of a date for taking evidence and argument, and shall review <u>de novo</u> the question at issue on the date designated. The Watermaster decision or action shall have no evidentiary weight in such proceeding.
- (e) <u>Decision</u>. The decision of the Court in such proceeding shall be an appealable Supplemental Order in this case. When the same is final, it shall be binding upon the Watermaster and the parties.

F. PHYSICAL SOLUTION

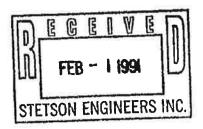
- Consistent with the California Constitution and the decisions of the Supreme Court, the Court hereby adopts and Orders the parties to comply with this Physical Solution. The purpose and objective of these provisions is to provide a legal and practical means for accomplishing the most economic, long term, conjunctive utilization of surface, Ground Water, Supplemental Water and Ground Water storage capacity to meet the needs and requirements of the water users dependent upon the Basin and Relevant Watershed, while preserving existing equities.
 - 39. Need for Flexibility. (Prior Judgment Section 31) In

Ralph 4605 L North Teleph

Ralph B. Helm - Bar No. 022004 4605 Lankershim Boulevard, #214 North Hollywood, CA 91602

Telephone (818) 769-2002

Attorney for Watermaster - Petitioner



SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES

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27 28 UPPER SAN GABRIEL VALLEY
MUNICIPAL WATER DISTRICT,
Plaintiff,
vs.

CITY OF ALHAMBRA, et al.,
Defendants.

No. 924129

ORDER AMENDING JUDGMENT TO EXPAND WATERMASTER'S POWERS TO INCLUDE MAINTENANCE, IMPROVEMENT, AND CONTROL OF BASIN WATER QUALITY WITH ALLOWABLE FUNDING THROUGH IN-LIEU ASSESSMENTS

Hearing: August 7, 1990 Department 38, 9:15 A. M.

The Petition of the Main San Gabriel Basin Watermaster (Watermaster) for Amendment to Judgment herein to expand its powers to include maintenance, improvement, and control of Basin water quality by controlling pumping in the Basin, with allowable funding for associated costs to be paid through its In-Lieu Assessments, was continued on July 31, 1990, to August 7, 1990, when it duly and regularly came on for hearing, at 9:15 o'clock A. M. in Department 38 of the above entitled Court, the Honorable FLORENCE T. PICKARD, Assigned Judge Presiding. Ralph B. Helm appeared as Attorney for Watermaster - Petitioner; Wayne K. Lemieux appeared for Defendant, San Gabriel Valley Municipal Water District, in support of the Petition; Fred Vendig, General

Counsel, Karen L. Tachiki, Assistant General Counsel, and Victor E. Gleason, Senior Deputy General Counsel, by Victor E. Gleason, appeared for Defendant, The Metropolitan Water District of Southern California, in support of the Petition; Timothy J. Ryan appeared for Defendant, San Gabriel Valley Water Company, in opposition to the Petition; Lagerlof, Senecal, Drescher & Swift, by H. Jess Senecal, appeared for Defendants, Calmat Company, Livingston-Graham, Owl Rock Products, AZ-Two, Inc., and Sully-Miller Contracting Company, in opposition to the Petition; Ira Reiner, Los Angeles County District Attorney, by Jan Chatten-Brown, Special Assistant to the District Attorney, appeared in opposition to the Petition; and Sarah F. Bates and Laurens H. Silver, by Sarah F. Bates, appeared on behalf of Amicus Curiae Sierra Club, in opposition to the Petition.

The Court acknowledged receipt and consideration of:

letters in support of the Petition by the California Regional

Water Quality Control Board - Los Angeles Region and by the

State Water Resources Control Board; a copy of a letter

addressed to the Attorney for Petitioner, from the US

Environmental Protection Agency - Region IX, by Mark J.

Klaiman, Assistant Regional Counsel, regarding several matters

of federal law which EPA believed might ultimately affect the

subject Petition; a letter in opposition to the Petition by East

Valleys Organization; and a FAX communication to the Court, in

opposition to the Petition, from Congressman Esteban E. Torres,

which was not communicated to nor seen by the parties.

Members of the public, present in Court, were invited to, and did, present oral testimony during the hearing.

Under date of December 10, 1990 the Court entered its

Intended Decision Re Amendment To Judgment and, by minute order duly entered and mailed to Counsel for Petitioner, ordered copies thereof mailed forthwith to all appearing parties, including those appearing as friends of the court, and to all other affected parties on the case's current mailing list.

A Proof Of Service by mail on December 13, 1990, Of Intended Decision Re Amendment To Judgment, as ordered, has been filed with the Court.

Opposition to Petitioner's Proposed Order were filed by
Amicus Curiae Sierra Club, Amicus Curiae Los Angeles District
Attorney, and by Producer Parties Calmat Co., Livingston-Graham,
Owl Rock Products Company, AZ-Two, Inc., and Sully-Miller
Contracting Company.

Proof being made to the satisfaction of the Court and good cause appearing:

IT IS, HEREBY, ORDERED:

- 1. That the Amended Judgment herein be further amended by amending Subsection (j) of Section 10 thereof, Definitions, and Section 40 thereof, Division F, Physical Solution, to read as follows:
- "10 (j) <u>In-Lieu Water Cost</u> - The differential between a particular Producer's cost of Watermaster directed produced, treated, blended, substituted, or Supplemental Water delivered or substituted to, for, or taken by, such Producer in-lieu of his cost of otherwise normally Producing a like amount of Ground Water from the Basin.
 - "40. <u>Watermaster Control</u>. (Prior Judgment Section 32)

In order to develop an adequate and effective program of Basin management, it is essential that Watermaster have broad discretion in the making of Basin management decisions within the ambit hereinafter set forth. The maintenance, improvement, and control of the water quality and quantity of the Basin, withdrawal and replenishment of supplies of the Basin and Relevant Watershed, and the utilization of the water resources thereof, must be subject to procedures established by Watermaster in implementation of the Physical Solution provisions of this Judgment. Both the quantity and quality of said water resource are thereby preserved and its beneficial utilization maximized.

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- "(a) Watermaster shall develop an adequate and effective program of Basin management. The maintenance, improvement, and control of the water quality and quantity of the Basin, withdrawal and replenishment of supplies of the Basin and Relevant Watershed, and the utilization of the water resources thereof, must be subject to procedures established by Watermaster in implementation of the Physical Solution provisions of this Judgment. All Watermaster programs and procedures shall be adopted only after a duly noticed public hearing pursuant to Sections 37 and 40 of the Amended Judgment herein.
- "(b) Watermaster shall have the power to control pumping in the Basin by water Producers therein for Basin cleanup and water quality control so that specific well production can be directed as to a lesser amount, to total cessation, as to an increased amount, and even to require pumping in a new location in the

- "(c) Watermaster may act individually or participate with others to carry on technical and other necessary investigations of all kinds and collect data necessary to carry out the herein stated purposes. It may engage in contractual relations with the EPA or other agencies in furtherance of the clean up of the Basin and enter into contracts with agencies of the United States, the State of California, or any political subdivision, municipality, or district thereof, to the extent allowed under applicable federal or state statutes. Any cooperative agreement between the Watermaster and EPA shall require the approval of the appropriate Agency(s) of the State of California.
- "(d) For regulation and control of pumping activity in the Basin, Watermaster shall adopt Rules and Regulations and programs to promote, manage and accomplish clean up of the Basin and its waters, including, but not limited to, measures to confine, move, and remove contaminants and pollutants. Such Rules and Regulations and programs shall be adopted only after a duly Noticed Public Hearing by Watermaster and shall be subject to Court review pursuant to Section 37 of the Amended Judgment herein.
- "(e) Watermaster shall determine whether funds from local, regional, state or federal agencies are available for regulating pumping and the various costs associated with, or arising from such activities. If no public funds are available from local,

regional, state, or federal agencies, the costs shall be obtained and paid by way of an In-Lieu Assessment by Watermaster pursuant to Section 10 (j) of the Amended Judgment herein.

Provided such In-Lieu Assessments become necessary, the costs shall be borne by all Basin Producers.

- "(f) Watermaster is a Court empowered entity with limited powers, created pursuant to the Court's Physical Solution Jurisdiction under Article X, Section 2 of the California Constitution. None of the Powers granted herein to Watermaster shall be construed as designating Watermaster a political subdivision of the State of California or authorizing Watermaster to act as 'lead agency' to administer the federal Superfund for clean up of the Basin."
- 2. This Amended Judgment shall continue in full force and effect as hereby Ordered and Amended.

Dated: January 29, 1991.

/s/Florence T. Pickard
FLORENCE T. PICKARD
Judge of the Superior Court,
Specially Assigned

 order that Watermaster may be free to utilize both existing and new and developing technological, social and economic concepts for the fullest benefit of all those dependent upon the Basin, it is essential that the Physical Solution hereunder provide for maximum flexibility and adaptability. To that end, the Court has retained continuing jurisdiction to supplement the broad discretion herein granted to the Watermaster.

- order to develop an adequate and effective program of Basin management, it is essential that Watermaster have broad discretion in the making of Basin management decisions within the ambit hereinafter set forth. Withdrawal and replenishment of supplies of the Basin and Relevant Watershed and the utilization of the water resources thereof, and of available Ground Water storage capacity, must be subject to procedures established by Watermaster in implementation of the provisions of this Judgment. Both the quantity and quality of said water resource are thereby preserved and its beneficial utilization maximized.
- 41. General Pattern of Contemplated Operation. (Prior Judgment Section 33) In general outline (subject to the specific provisions hereafter and to Watermaster Operating Criteria set forth in Exhibit "H"), Watermaster will determine annually the Operating Safe Yield of the Basin and will notify each Pumper of his share thereof, stated in acre feet per Fiscal Year. Thereafter, no party may Produce in any Fiscal Year an amount in excess of the sum of his Diversion Right, if any, plus his Pumper's Share of such Operating Safe Yield, or his

Integrated Production Right, or the terms of any Cyclic Storage Agreement, without being subject to Assessment for the purpose of purchasing Replacement Water. In establishing the Operating Safe Yield, Watermaster shall follow all physical, economic, and other relevant parameters provided in the Watermaster Operating Criteria. Watermaster shall have Assessment powers to raise funds essential to implement the management plan in any of the several special circumstances herein described in more detail.

- 42. <u>Basin Operating Criteria</u>. (Prior Judgment Section 34)
 Until further order of the Court and in accordance with the
 Watermaster Operating Criteria, Watermaster shall not spread
 Replacement Water when the water level at the Key Well exceeds
 Elevation two hundred fifty (250), and Watermaster shall spread
 Replacement Water, insofar as practicable, to maintain the water
 level at the Key Well above Elevation two hundred (200).
- Judgment Section 35) Watermaster shall annually determine the Operating Safe Yield applicable to the succeeding Fiscal Year and estimate the same for the next succeeding four (4) Fiscal Years. In making such determination, Watermaster shall be governed in the exercise of its discretion by the Watermaster Operating Criteria. The procedures with reference to said determination shall be as follows:
 - (a) <u>Preliminary Determination</u>. On or before
 Watermaster's first meeting in April of each year,
 Watermaster shall make a Preliminary Determination of the
 Operating Safe Yield of the Basin for each of the
 succeeding five Fiscal Years. Said determination shall be

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made in the form of a report containing a summary statement of the considerations, calculations and factors used by Watermaster in arriving at said Operating Safe Yield.

- (b) Notice and Hearing. A copy of said Preliminary

 Determination and report shall be mailed to each Pumper and

 Integrated Producer at least ten (10) days prior to a

 hearing to be held at Watermaster's regular meeting in May,

 of each year, at which time objections or suggested

 corrections or modifications of said determinations shall

 be considered. Said hearing shall be held pursuant to

 procedures adopted by Watermaster.
- (c) <u>Watermaster Determination and Review Thereof</u>. Within thirty (30) days after completion of said hearing, Watermaster shall mail to each Pumper and Integrated Producer a final report and determination of said Operating Safe Yield for each such Fiscal Year, together with a statement of the Producer's entitlement in each such Fiscal Year stated in acre feet. Any affected party, within thirty (30) days of mailing of notice of said Watermaster determination, may, by a regularly noticed motion, petition the Court for an Order to Show Cause for review of said Watermaster finding, and thereupon the Court shall hear such objections and settle such dispute. Unless so ordered by the Court, such petition shall not operate to stay the effect of said report and determination. In the absence of such review proceedings, the Watermaster determination shall be final.
- 44. Reports of Pumping and Diversion. (Prior Judgment

 Section 36) Each party (other than Minimal Producers) shall file with the Watermaster quarterly, on or before the last day of January, April, July and October, a report on a form to be prescribed by Watermaster showing the total Pumping and Diversion (separately for Direct Use and for non-consumptive use, if any,) of such party during the preceding calendar quarter.

- 45. Assessments -- Purpose. (Prior Judgment Section 37)
 Watermaster shall have the power to levy and collect Assessments
 from the parties (other than Minimal Producers, non-consumptive
 users, or Production under Special Category Rights or Cyclic
 Storage Agreements) based upon Production during the preceding
 Fiscal Year. Said Assessments may be for one or more of the
 following purposes:
 - (a) Watermaster Administration Costs. Within thirty (30) days after completion of the hearing on the Preliminary Determination of the Operating Safe Yield of the Basin and Watermaster's determination thereof, pursuant to Section 43 hereof, Watermaster shall adopt a proposed budget for the succeeding Fiscal Year and shall mail a copy thereof to each party, together with a statement of the level of Administration Assessment levied by Watermaster which will be collected for purposes of raising funds for said budget. Said Assessment shall be uniformly applicable to each acre foot of Production.
 - (b) Replacement Water Costs. Replacement Water

 Assessments shall be collected from each party on account
 of such party's Production in excess of its Diversion

Rights, Pumper's Share or Integrated Production Right, and on account of the consumptive use portion of Overlying Rights, computed at the applicable rate established by Watermaster consistent with the Watermaster Operating Criteria.

- (c) Make-Up Obligation. An Assessment shall be collected equally on account of each acre foot of Production, which does not bear a Replacement Assessment hereunder, to pay all necessary costs of Administration and satisfaction of the Make-Up Obligation. Such Assessment shall not be applicable to water Production for an Overlying Right.
- (d) <u>In-Lieu Water Cost</u>. Watermaster may levy an Assessment against all Pumping to pay reimbursement for In-Lieu Water Costs except that such Assessment shall not be applicable to the non-consumptive use portion of an Overlying Right.
- (e) <u>Basin Water Quality Improvement</u>. For purposes of testing, protecting or improving the water quality in the Basin, Watermaster may, after a noticed hearing thereon, fix terms and conditions under which it may waive all or any part of its <u>Assessments</u> on such ground water Production and if such Production, in addition to his other Production, does not exceed such Producer's Share or entitlement for that Fiscal Year, such stated Production shall be allowed to be carried over for a part of such Producer's next Fiscal Year's Producer's Share or entitlement. In connection therewith, Watermaster may also

waive the provisions of Sections 25, 26 and 57 hereof, relating to Injunction Against Unauthorized Recharge,
Injunction Against Transportation From Basin or Relevant
Watershed, and Intervention After Judgment, respectively.
Nothing in this Judgment is intended to allow an increase in any Producer's annual entitlement nor to prevent
Watermaster, after hearing thereon, from entering into contracts to encourage, assist and accomplish the clean up and improvement of degraded water quality in the Basin by non-parties herein. Such contracts may include the exemption of the Production of such Basin water therefor from Watermaster Assessments and, in connection therewith, the waiver of the provisions of Judgment Sections 25, 26, and 57 hereof.

- 46. <u>Assessments -- Procedure</u>. (Prior Judgment Section 38)
 Assessments herein provided for shall be levied and collected as follows:
 - (a) Levy and Notice of Assessment. Within thirty (30) days of Watermaster's annual determination of Operating Safe Yield of the Basin for each Fiscal Year and succeeding four (4) Fiscal Years, Watermaster shall levy applicable Administration Assessments, Replacement Water Assessments, Make-up Water Assessments and In-Lieu Water Assessments, if any. Watermaster shall give written notice of all applicable Assessments to each party on or before August 15, of each year.
 - (b) <u>Payment</u>. Each Assessment shall be payable, and each party is **Ordered** to pay the same, on or before

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27 28 September 20, following such Assessment, subject to the rights reserved in Section 37 hereof.

- (c) <u>Delinquency</u>. Any Assessment which becomes delinquent after January 1, 1980, shall bear interest at the annual prime rate plus one percent (1%) in effect on the first business day of August of each year. Said prime interest rate shall be that fixed by the Bank of America NT&SA for its preferred borrowing customers on said date. Said prime interest rate plus one percent (1%) shall be applicable to any said delinquent Assessment from the due date thereof until paid. Provided, however, in no event shall any said delinquent Assessment bear interest at a rate of less than ten percent (10%) per annum. Such delinquent Assessment and interest may be collected in a Show Cause proceeding herein or any other legal proceeding instituted by Watermaster, and in such proceeding the Court may allow Watermaster its reasonable costs of collection, including attorney's fees.
- 47. Availability of Supplemental Water From Responsible
 Agencies. (Prior Judgment Section 39) If any Responsible
 Agency shall, for any reason, be unable to deliver Supplemental
 Water to Watermaster when needed, Watermaster shall collect
 funds at an appropriate level and hold them in trust, together
 with interest accrued thereon, for purchase of such water when
 available.
- 48. Accumulation of Replacement Water Assessment Proceeds.

 (Prior Judgment Section 40) In order to minimize fluctuation in Assessments and to give Watermaster flexibility in Basin

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management, Watermaster may make reasonable accumulations of Replacement Water Assessments. Such moneys and any interest accrued thereon shall only be used for the purchase of Replacement Water.

- 19. Carry-over of Unused Rights. (Prior Judgment Section 41) Any Pumper's Share of Operating Safe Yield, and the Production right of any Integrated Producer, which is not Produced in a given Fiscal Year may be carried over and accumulated for one Fiscal Year, pursuant to reasonable rules and procedures for notice and accounting which shall be adopted by Watermaster. The first water Produced in the succeeding Fiscal Year shall be deemed Produced pursuant to such Carry-over Rights.
- 50. Minimal Producers. (Prior Judgment Section 42) the interest of Justice, Minimal Producers are exempted from the operation of this Physical Solution, so long as such party's annual Production does not exceed five (5) acre feet. Quarterly Production reports by such parties shall not be required, but Watermaster may require, and Minimal Producers shall furnish, specific periodic reports. In addition, Watermaster may conduct such investigation of future operations of any Minimal Producer as may be appropriate.
- Effective Date. (Prior Judgment Section 43) The 51. effective date for commencing accounting and operation under this Physical Solution, other than for Replacement Water Assessments, shall be July 1, 1972. The first Assessment for Replacement Water shall be payable on September 20, 1974, on account of Fiscal Year 1973-74 Production.

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G. MISCELLANEOUS PROVISIONS

Puente Narrows Flow. (Prior Judgment Section 44) The Puente Basin is tributary to the Main San Gabriel Basin. All Producers within said Puente Basin have been dismissed herein, based upon the Puente Narrows Agreement (Exhibit "J"), whereby Puente Basin Water Agency agreed not to interfere with surface inflow and to assure continuance of historic subsurface contribution of water to Main San Gabriel Basin. declares said Agreement to be reasonable and fair and in full satisfaction of claims by Main San Gabriel Basin for natural water from Puente Basin.

San Gabriel District - Interim Order. (Prior Judgment Section 45) San Gabriel District has a contract with the State of California for State Project Water, delivered at Devil Canyon in San Bernardino County. San Gabriel District is HEREBY ORDERED to proceed with and complete necessary pipeline facilities as soon as practical.

Until said pipeline is built and capable of delivering a minimum of twenty-eight thousand eight-hundred (28,800) acre feet of State Project water per year, defendant cities of Alhambra, Azusa, and Monterey Park shall pay to Watermaster each Fiscal Year a Replacement Assessment at a uniform rate sufficient to purchase Replenishment Water when available, which rate shall be declared by San Gabriel District. When water is available through said pipeline, San Gabriel District shall make the same available to Watermaster, on his reasonable demand, at said specified rate per acre foot. Interest accrued on such funds shall be paid to San Gabriel

District.

Papers. (Prior Judgment Section 46) Service of the Judgment on those parties who have executed the Stipulation for Judgment shall be made by first class mail, postage prepaid, addressed to the Designee and at the address designated for that purpose in the executed and filed counterpart of the Stipulation for Judgment, or in any substitute designation filed with the Court.

Each party who has not heretofore made such a designation shall, within thirty (30) days after the Judgment shall have been served upon that party, file with the Court, with proof of service of a copy thereof upon Watermaster, a written designation of the person to whom and the address at which all future notices, determinations, requests, demands, objections, reports and other papers and processes to be served upon that party or delivered to that party are to be so served or delivered.

A later substitute designation filed and served in the same manner by any party shall be effective from the date of filing as to the then future notices, determinations, requests, demands, objections, reports and other papers and processes to be served upon or delivered to that party.

Delivery to or service upon any party by Watermaster, by any other party, or by the Court, of any item required to be served upon or delivered to a party under or pursuant to the Judgment may be made by deposit thereof (or by copy thereof) in the mail, first class, postage prepaid, addressed to the Designee of the party and at the address shown in the latest

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Judgment Section 47) Any rights Adjudicated herein except
Overlying Rights, may be assigned, transferred, licensed or
leased by the owners thereof; provided however, that no such
assignment shall be complete until the appropriate notice
procedures established by Watermaster have been complied with.
No water Produced pursuant to rights assigned, transferred,
licensed, or leased may be transported outside the Relevant
Watershed except by:

- (1) a Transporting Party, or
- (2) a successor in interest immediate or mediate to a water system on lands or portion thereof, theretofore served by such a Transporting Party, for use by such successor in accordance with limitations applicable to Transporting Parties, or
- (3) a successor in interest to the Special Category rights of MWD.

The transfer and use of Overlying Rights shall be limited, as provided in Section 21 hereof, as exercisable only on the specifically defined Overlying Lands and they cannot be separately conveyed or transferred apart therefrom.

56. Abandonment of Rights. (Prior Judgment Section 48)

It is in the interest of reasonable beneficial use of the Basin and its water supply that no party be encouraged to take and use more water in any Fiscal Year than is actually required.

Failure to Produce all of the water to which a party is entitled hereunder shall not, in and of itself, be deemed or constitute

an abandonment of such party's right, in whole or in part.

Abandonment and extinction of any right herein Adjudicated shall be accomplished only by:

- (1) a written election by the party, filed in this case, or
- (2) upon noticed motion of Watermaster, and after hearing.

In either case, such abandonment shall be confirmed by express subsequent order of this Court.

- 49) Any person who is not a party or successor to a party and who proposes to Produce water from the Basin or Relevant Watershed, may seek to become a party to this Judgment through a Stipulation For Intervention entered into with Watermaster. Watermaster may execute said Stipulation on behalf of the other parties herein but such Stipulation shall not preclude a party from opposing such Intervention at the time of the Court hearing thereon. Said Stipulation For Intervention must thereupon be filed with the Court, which will consider an order confirming said Intervention following thirty (30) days' notice to the parties. Thereafter, if approved by the Court, such Intervenor shall be a party bound by this Judgment and entitled to the rights and privileges accorded under the Physical Solution herein.
- 58. Judgment Binding on Successors, etc. (Prior Judgment Section 50) Subject to specific provisions hereinbefore contained, this Judgment and all provisions thereof are applicable to and binding upon and inure to the benefit of not

only the parties to this action, but as well to their respective heirs, executors, administrators, successors, assigns, lessees, licensees and to the agents, employees and attorneys in fact of any such persons.

- 59. Water Rights Permits. (Prior Judgment Section 51)
 Nothing herein shall be construed as affecting the relative
 rights and priorities between MWD and San Gabriel Valley
 Protective Association under State Water Rights Permits Nos.
 7174 and 7175, respectively.
- 60. <u>Costs</u>. (Prior Judgment Section 52) No party shall recover any costs in this proceeding from any other party.
- 61. Entry of Judgment. (New) The Clerk shall enter this Judgment.

DATED: August 24, 1989.

s/ Florence T. Pickard
Florence T. Pickard, Judge
Specially Assigned

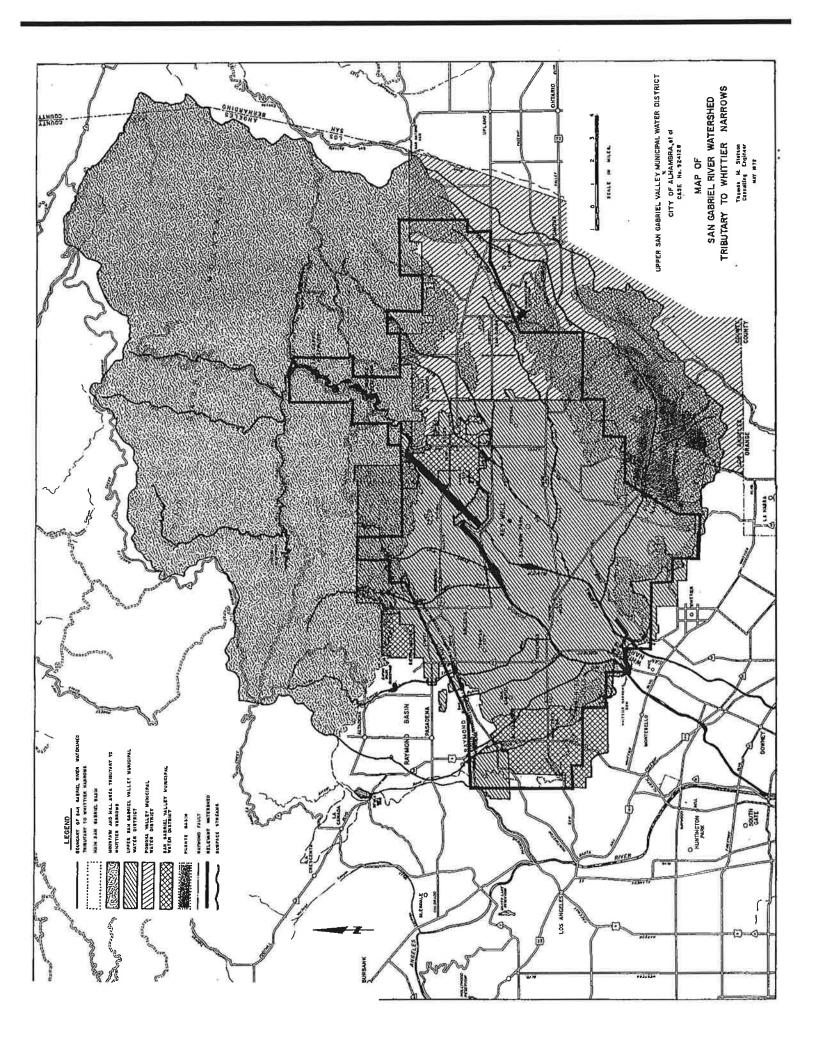


Exhibit "B"

BOUNDARIES OF RELEVANT WATERSHED

The following described property is located in Los Angeles County, State of California:

Beginning at the Southwest corner of Section 14,
Township 1 North, Range 11 West, San Bernardino Base and
Meridian;

Thence Northerly along the West line of said Section 14 to the Northwest corner of the South half of said Section 14;

Thence Easterly along the North line of the South half of Section 14 to the East line of said Section 14;

Thence Northerly along the East line of said Section 14, Township 1 North, Range 11 West and continuing Northerly along the East line of Section 11 to the Northeast corner of said Section 11;

Thence Easterly along the North line of Section 12 to the Northeast corner of said Section 12;

Thence Southerly along the East line of said Section 12 and continuing Southerly along the East line of Section 13 to the Southeast corner of said Section 13, said corner being also the Southwest corner of Section 18, Township 1 North, Range 10 West;

Thence Easterly along the South line of Sections 18, 17, 16 and 15 of said Township 1 North, Range 10 West to the Southwest corner of Section 14;

Thence Northerly along the West line of Section 14 to the Northwest corner of the South half of Section 14;

Thence Easterly along the North line of the South half of Section 14 to the East line of said section;

Thence Northerly along the East line of said Section 14, and continuing Northerly along the West line of Section 12 of said Township 1 North, Range 10 West to the North line of said Section 12;

Thence Easterly along the North line of said Section 12, to the Northeast corner of said Section 12, said corner being also the Southwest corner of Section 6, Township 1 North, Range 9 West;

Thence Northerly along the West line of said Section 6 and continuing Northerly along West line of Sections 31 and 30, Township 2 North, Range 9 West to the Westerly prolongation of the North line of said Section 30;

Thence Easterly along said Westerly prolongation of the North line of said Section 30 and continuing Easterly along the North line of Section 29 to the Northeast corner of said Section 29;

Thence Southerly along the East line of said Section 29 and continuing Southerly along the East line of Section 32, Township 2 North, Range 9 West, and thence continuing Southerly along the East line of Section 5, Township 1 North, Range 9 West to the Southeast corner of said Section 5;

Thence Westerly along the South line of said Section 5 to the Southwest corner of said Section 5, said point being also the Northwest corner of Section 8;

Thence Southerly along the West line of said Section 8 and continuing Southerly along the West line of Section 17, to the Southwest corner of said Section 17, said corner being also the Northwest corner of Section 20;

Thence Easterly along the North line of Sections 20 and 21 to the Northwest corner of Section 22, said corner being also the Southwest corner of Section 15;

Thence Northerly along the West line of said Section 15 to the Northwest corner of the South half of said Section 15;

Thence Easterly along the North line of said South half of Section 15 to the Northeast corner of said South half of Section 15;

Thence Southerly along the East line of Section 15 and continuing Southerly along the East line of Section 22 to the Southeast corner of said Section 22, said point being also the Southwest corner of Section 23;

Thence Easterly along the South line of Sections 23 and 24 to the East line of the West half of said Section 24;

Thence Northerly along said East line of the West half of Section 24 to the North line thereof;

Thence Easterly along said North line of Section 24 to the Northeast corner thereof, said point also being the Northwest corner of Section 19, Township 1 North, Range 8 West;

Thence continuing Easterly along the North line of Section 19 and Section 20 of said Township 1 North, Range 8 West to the Northeast corner of said Section 20;

Thence Southerly along the East line of Sections 20, 29 and 32 of said Township 1 North, Range 8 West to the Southeast corner of said Section 32;

Thence Westerly along the South line of Section 32 to the Northwest corner of the East half of Section 5, Township 1 South, Range 8 West;

Thence Southerly along the West line of the East half of said Section 5 to the South line of said Section 5;

Thence West to the East line of the Northerly prolongation of Range 9 West;

Thence South 67 30 West to an intersection with the Northerly prolongation of the West line of Section 27, Township 1 South, Range 9 West;

Thence Southerly along the Northerly prolongation of said West line of Section 27 and continuing Southerly along the West line of Section 27 to the Southwest corner of said Section 27, said point being also the Southeast corner of Section 28;

Thence Westerly along the South line and Westerly projection of the South line of said Section 28 to the Northerly prolongation of the West line of Range 9 West;

Thence Southerly along said prolongation of the West line of Range 9 West to the Westerly prolongation of the North line of Township 2 South;

Thence Westerly along said Westerly prolongation of the North line of Township 2 South, a distance of 8,500 feet; $^{\ensuremath{\mathcal{V}}}$

Thence South a distance of 4,500 feet; /

Thence West a distance of 10,700 feet;

Thence South 29° West to an intersection with the Northerly prolongation of the West line of Section 20, Township 2 South, Range 10 West;

Thence Southerly along said Northerly prolongation of the West line of said Section 20 and continuing Southerly along the West line of Section 20 to the Southwest corner of said Section 20;

Thence South a distance of 2,000 feet;

Thence West a distance of two miles, more or less, to an intersection with the East line of Section 26, Township 2 South, Range 11 West;

Thence Northerly along said East line of Section 26 and continuing Northerly along the East line of Section 23,

Township 2 South, Range 11 West to the Northeast corner of said Section 23;

Thence Westerly along the North line of said Section 23 to the Northwest corner thereof, said point being also the Southeast corner of Section 15, Township 2 South, Range 11 West;

Thence Northerly and Westerly along the East and North lines, respectively, of said Section 15, Township 2 South, Range 11 West, to the Northwest corner thereof;

Thence continuing Westerly along the Westerly prolongation of said North line of Section 15, Township 2 South, Range 11 West to an intersection with a line parallel to and one mile East of the West line of Range 11 West;

Thence Northerly along said parallel line to an intersection with the Northerly boundary of the City of Pico Rivera as said City of Pico Rivera existed on July 17, 1970;

Thence Westerly along said City boundary to an intersection with the East line of Range 12 West;

Thence Northerly along said East line of Range 12 West to the North line of Township 2 South;

Thence Westerly along the North line of Township 2 South to an intersection with the Southerly prolongation of the East line of the West half of Section 26, Township 1 South, Range 12 West;

Thence Northerly along said Southerly prolongation of said East line of the West half of said Section 26 to the Southeast corner of said West half;

Thence Westerly along the South line of Sections 26, 27 and 28, Township 1 South, Range 12 West, to the Southeast corner of Section 29, Township 1 South, Range 12 West;

Thence Northerly along the East line of said Section 29 to the Northeast corner of the South half of said Section 29;

Thence Westerly along the North line of the South half of said Section 29 to the Northwest corner thereof;

Thence Northerly along the West line of Sections 29, 20, 20, and 8, Township 1 South, Range 12 West;

Thence continuing Northerly along the Northerly prolongation of the West line of Section 8, Township 1 South, Range 12 West to an intersection with the North line of Township 1 South;

Thence Easterly along said North line of Township 1
South to the Northeast corner of Section 3, Township 1 South,
Range 12 West;

Thence North 64° 30' East to an intersection with the West line of Section 23, Township 1 North, Range 11 West;

Thence Northerly along the West line of said Section 23 to the Northwest corner thereof, said point being the Southwest corner of Section 14, Township 1 North, Range 11 West and said point being also the point of beginning.

Exhibit "C"

TABLE SHOWING BASE ANNUAL DIVERSION RIGHTS OF CERTAIN DIVERTERS

Div	ase Annual ersion Right <u>Acre-Feet</u>
Covell, Ralph (Successor to Rittenhouse, Catherine and Rittenhouse, James)	2.12
Maddock, A. G.	3.40
Rittenhouse, Catherine (Transferred to Covell, Ralph)	0
Rittenhouse, James (Transferred to Covell, Ralph)	0
Ruebhausen, Arline (Held in common with Ruebhausen, Victor (Transferred to City of Glendale)	0
Ruebhausen, Victor (See Ruebhausen, Arline, above)	0
TOTAL	5.52

Exhibit "D"

TABLE SHOWING PRESCRIPTIVE PUMPING RIGHTS AND PUMPER'S SHARE OF EACH PUMPER AS OF JUNE, 1988

<u>Pumper</u>	Prescriptive Pumping Right	Pumper's Share
	Acre-feet	Percent (%)
Adams Ranch Mutual Water Company	100.00	0.05060
A & E Plastik Pak Co., Inc. (Transferred to Industry Properties, Ltd.)	0	0
Alhambra, City of	8,812.05	4.45876
Amarillo Mutual Water Company	709.00	0.35874
Anchor Plating Co., Inc. (Successor to Bodger & Sons) (Transferred to Crown City Plating Co.)	0	0
Anderson, Ray L. and Helen T., Trustees (Successor to Covina-Valley Unified School District)	50.16	0.02538
Andrade, Marcario and Consuelo; and Andrade, Robert and Jayne (Successor to J. F. Isbell Estate, Inc.)	8.36	0.00423
Arcardia, City of (Successor to First National	9,252.00	4.68137
Finance Corporation) (Transferred to City of Monrovia)	$\begin{array}{r} 60.90 \\ \underline{951.00} \\ 8,361.90 \end{array}$	$0.03081 \\ \underline{0.48119} \\ 4.23099$
Associated Southern Investment Company (Transferred to Southern		
California Edison Company)	0	0
AZ-Two, Inc. (Lessee of Southwestern Portland Cement Co.)	0	0
Azusa, City	3,655.99	1.84988
Azusa-Western Inc. (Transferred to Southwestern Portland Cement Co.)	0	0
Bahnsen & Beckman Ind., Inc. (Transferred to Woodland, Richard)	0	0

Exhibit "D" D - 1

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share %
Bahnsen, Betty M. (Transferred to Dawes, Mary Kay)	0	0
Baldwin Park County Water District (See Valley County Water District)	26	224
Banks, Gale C. (Successor to Doyle, Mr. and Mrs.; and Madruga, Mr. and Mrs.)	50.00	0.02530
Base Line Water Company	430.20	0.21767
Beverly Acres Mutual Water Company	93.00	0.04706
Birenbaum, Max (Held in common with Birenbaum, Sylvia; Schneiderman, Alan; Schneiderman, Lydia; Wigodsky, Bernard; Wigodsky, Estera) (Transferred to City of Whittier)	0	0
Birenbaum, Sylvia (See Birenbaum, Max)	8	_
Blue Diamond Concrete Materials Div., The Flintkote Company (Transferred to Sully-Miller Contracting Co.)	0	0
Bodger & Sons DBA Bodger Seeds Ltd. (Transferred to Anchor Plating Co., Inc.)	0	0
Botello Water Company	0	0
Burbank Development Company	50.65	0.02563
Cadway, Inc. (Successor to: Corcoran, Jack S. and R. L.) Corcoran, Jack S. and R. L.)	100.00 100.00 200.00	$\begin{array}{c} 0.05060 \\ \underline{0.05060} \\ 0.10120 \end{array}$
Cal Fin (Transferred to Suburban Water Systems)	0	0
California-American Water Company (San Marino System)	7,868.70	3.98144
California Country Club	0	0

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share
California Domestic Water Company (Successor to:	11,024.82	5.57839
Cantrill Mutual Water Company Industry Properties, Ltd. Modern Accent Corporation Fisher, Russell)	$42.50 \\ 73.50 \\ 256.86 \\ \underline{19.00} \\ 11,416.68$	0.02150 0.03719 0.12997 0.00961 5.77666
California Materials Company	0	0
Cantrill Mutual Water Company (Transferred to California Domestic Water Co.)	0	0
Cedar Avenue Mutual Water Company	121.10	0.06127
Champion Mutual Water Company	147.68	0.07472
Chronis, Christine (See Polopolus, et al)	₩.	=
Clayton Manufacturing Company	511.80	0.25896
Collison, E. O.	0	0
Comby, Erma M. (See Wilmott, Erma M.)	-	-
Conrock Company (Formerly Consolidated Rock Products Co.) (Successor to Manning Bros. Rock & Sand Co.)	$\frac{1,465.35}{328.00}$ $1,793.35$	0.74144 0.16596 0.90740
Consolidated Rock Products Co. (See Conrock Company)	-	=
Corcoran, Jack S. (Held in common with Corcoran, R. L.) (Transferred to: Cadway, Inc. Cadway, Inc.)	747.00 100.00 100.00 547.00	0.37797 0.05060 0.05060 0.27677
Corcoran, R. L. (See Corcoran, Jack S.)	-	=
County Sanitation District No. 18 of Los Angeles County	4.50	0.00228

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share %
Covell, et al. (Successor to Rittenhouse, Catherine and Rittenhouse, James) (Held in common with Jobe, Darr; Goedert, Lillian E.; Goedert, Marion W.; Lakin, Kendall R.; Lakin, Kelly R.; Snyder, Harry)	111.05	0.05619
Covina, City of (Transferred to Covina Irrigating Company) (Transferred to Covina Irrigating Company)	$2,507.89 \\ 1,734.00 \\ \underline{300.00} \\ 473.89$	1.26895 0.87737 0.15179 0.23979
Covina-Valley Unified School District (Transferred to Anderson, Ray)	0	0
Crevolin, A. J.	2.25	0.00114
Crocker National Bank, Executor of the Estate of A. V. Handorf (Transferred to Modern Accent Corp.)	0	0
Cross Water Company (Transferred to City of Industry)	0	0
Crown City Plating Company (Successor to Anchor Plating Co., Inc.)	$\frac{190.00}{10.00}$	0.09614 0.00506 0.10120
Davidson Optronics, Inc.	22.00	0.01113
Dawes, Mary Kay (Successor to Bahnsen, Betty M.)	441.90	0.22359
Del Rio Mutual Water Company	199.00	0.10069
Denton, Kathryn W., Trustee for San Jose Ranch Company (Transferred to White, June G.,		
Trustee of the June G. White Share of the Garnier Trust)	0	0
Doyle, Mr. and Mrs.; and Madruga, Mr. and Mrs. (Successor to Sawpit Farms, Ltd.) (Transferred to Banks, Gale C.)	0	0
Driftwood Dairy	163.80	0.08288
Duhalde, L. (Transferred to El Monte Union High School District)	0	0

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share
Dunning, George (Held in common with Dunning, Vera H.) (Successor to Vera H. Dunning)	324.00	0.16394
Dunning, Vera H. (Transferred to George Dunning)	. .	=
East Pasadena Water Company, Ltd.	1,407.69	0.71227
Eckis, Rollin (Successor to Sawpit Farms, Ltd.) (Transferred to City of Monrovia)	0	0
El Encanto Properties (Transferred to La Puente Valley County Water District)	0	0
El Monte, City of	2,784.23	1.40878
El Monte Cemetary Association	18.50	0.00936
El Monte Union High School District (Successor to Duhalde, L.) (Transferred to City of Whittier)	0	0
Everett, Mrs. Alda B. (Held in common with Everett, W. B., Executor of the Estate of I. Worth Everett)	0	0
Everett, W. B., Executor of the Estate of I. Worth Everett (See Everett, Mrs. Alda B.)	_	_
Faix, Inc.	- :	-
(Successor to Frank F. Pellissier & Sons, Inc.) (Transferred to Faix, Ltd.)	0	0
Faix, Ltd. (Successor to Faix, Inc.)	6,490.00	3.28384
First National Finance Corporation (Transferred to City of Arcadia)	0	0
Fisher, Russell (Held in common with Hauch, Edward and Warren, Clyde) (Transferred to California Domestic Water Company)		
20200010 Haber Company)	0	0

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share
Frank F. Pellissier & Sons, Inc. (Transferred to Faix, Inc.)	0	0
Fruit Street Water Company (Transferred to: Gifford, Brooks, Jr. City of La Verne)	0	0
Gifford, Brooks, Jr. (Successor to: Fruit Street Water Co., Mission Gardens Mutual Water Company) (Transferred to City of Whittier)	0	0
Gilkerson, Frank B. (Transferred to Jobe, Darr)	2	12
Glendora Unified High School District (Transferred to City of Glendora)	0	0
Goedert, Lillian E. (See Covell, et al)	-	-
Goedert, Marion W. (See Covell, et al)	¥	
Graham, William (Transferred to Darr Jobe)	₩	-
Green, Walter	71.70	0.03628
Grizzle, Lissa B. (Held in common with Grizzle, Mervin A.; Wilson, Harold R.; Wilson, Sarah C.)		
(Transferred to City of Whittier)	0	0
Grizzle, Mervin A. (See Grizzle, Lissa B.)	0	0
Hansen, Alice	0.75	0.00038
Hartley, David	0	0
Hauch, Edward (See Fisher, Russell)	0	0
Hemlock Mutual Water Company	166.00	0.08399

ì	<u>Pumper</u>	Prescriptive Pumping Right Acre-feet	Pumper's Share
	Hollenbeck Street Water Company (Transferred to Suburban Water Systems)	0	0
	Hunter, Lloyd F. (Successor to R. Wade)	4.40	0.00223
	Hydro-Conduit Corporation	0	0
	Industry Waterworks System, City of (Successor to Cross Water Company)	1,103.00	0.55810
	<pre>Industry Properties, Ltd. (Successor to A & E Plastik Pak Co., Inc.) (Transferred to California Domestic Water Co.)</pre>	0	0
	<pre>J. F. Isbell Estate, Inc. (Transferred to Andrade, Macario and Consuelo; and Andrade, Robert and Jayne)</pre>	0	0
	Jerris, Helen (See Polopolus, et al)	- 9	=
)	Jobe, Darr (See Covell, et al)	*.	
	Kirklen Family Trust (Formerly Kirklen, Dawn L.) (Held in common with Kirklen, William R.) (Successor to San Dimas-La Verne Recreational Facilities Authority)	$ \begin{array}{r} 375.00 \\ \underline{62.50} \\ 437.50 \end{array} $	0.18974 0.03162 0.22136
	Kirklen, Dawn L. (See Kirklen Family Trust)		
	Kirklen, William R. (See Kirklen, Dawn L.)	-	.
	Kiyan, Hideo (Held in common with Kiyan, Hiro)	30.00	0.01518
	Kiyan, Hiro (See Kiyan, Hideo)	-	-
	Knight, Kathryn M. (Successor to William Knight)	227.88	0.11530
	Knight, William (Transferred to Kathryn M. Knight)	0	0

Pumper	Prescriptive Pumping Right <u>Acre-feet</u>	Pumper's Share
Lakin, Kelly R. (See Covell, et al)		=
Lakin, Kendall R. (See Covell, et al)	-	☴
Landeros, John	0.75	0.00038
La Grande Source Water Company (Transferred to Suburban Water Systems)	0	0
Lang, Frank (Transferred to San Dimas-La Verne Recreational Facilities Authority)	0	0
La Puente Cooperative Water Company (Transferred to Suburban Water Systems)	0	0
La Puente Valley County Water District (Successor to El Encanto Properties)	$\frac{1,097.00}{33.40}$ $1,130.40$	0.55507 0.01690 0.57197
La Verne, City of (Successor to Fruit Street Water Co.)	$\begin{array}{r} 250.00 \\ \underline{105.71} \\ 355.71 \end{array}$	$\begin{array}{c} 0.12650 \\ \underline{0.05349} \\ 0.17999 \end{array}$
Lee, Paul M. and Ruth A.; Nasmyth, Virrginia; Nasmyth, John	0	0
Little John Dairy	0	0
Livingston-Graham, Inc.	1,824.40	0.92312
Los Flores Mutual Water Company (Transferred to City of Monterey Park)	0	0
Loucks, David	3,00	0.00152
Manning Bros. Rock & Sand Co. (Transferred to Conrock Company)	0	0
Maple Water Company	118.50	0.05996
Martinez, Frances Mercy (Held in common with Martinez, Jaime)	0.75	0.00038
Martinez, Jaime (See Martinez, Frances Mercy)	-	-
Massey-Ferguson Company	0	0

12.50	<u>Pumper</u>	Prescriptive Pumping Right _Acre-feet	Pumper's Share
	Miller Brewing Company	111.01	0.05617
	(Successor to: Maechtlen, Estate of J. J. Phillips, Alice B., et al)	$\begin{array}{r} 151.50 \\ \underline{50.00} \\ 312.51 \end{array}$	0.07666 0.02530 0.15813
	Mission Gardens Mutual Water Company (Transferred to Gifford, Brooks, Jr.)	0	0
	Modern Accent Corporation (Successor to Crocker National Bank, Executor of the Estate of A. V. Handorf) (Transferred to California Domestic Water Co.)	0	0
	Monterey Park, City of (Successor to Los Flores Mutual Water Co.)	$\frac{6,677.48}{26.60}$ $\frac{26.60}{6,704.08}$	3.37870 0.01346 3.39216
	Murphy Ranch Mutual Water Company (Transferred to Southwest Suburban Water)	0	0
)	Namimatsu Farms (Transferred to California Cities Water Company	7) 0	0
•	Nick Tomovich & Sons	0.02	0.00001
	No. 17 Walnut Place Mutual Water Co. (Transferred to San Gabriel Valley Water Company)	0	0
	Orange Production Credit Association	0	0
	Owl Rock Products Co.	715.60	0.36208
	Pacific Rock & Gravel Co. (Transferred to: City of Whittier Rose Hills Memorial Park Association)	0	0
	Park Water Company (Transferred to Valley County Water District)	0	0
	Penn, Margaret (See Polopolus, et al)	=	ā
	Pico County Water District	0.75	0.00038
	Polopolus, John (See Polopolus, et al)	=	-

<u>Pumper</u>	Prescriptive Pumping Right <u>Acre-feet</u>	Pumper's Share %
Polopolus, et al (Successor to Polopolus, Steve) (Held in common with Chronis, Christine; Jerris, Helen; Penn, Margaret; Polopolus, Jo	ohn) 22.50	0.01138
Polopolus, Steve (Transferred to Polopolus, et al)	-	-
Rados, Alexander (Held in common with Rados, Stephen and Rados, Walter)	43.00	0.02176
Rados, Stephen (See Rados, Alexander)	~	=,
Rados, Walter (See Rados, Alexander)	-	2
Richwood Mutual Water Company	192.60	0.09745
Rincon Ditch Company	628.00	0.31776
Rincon Irrigation Company	314.00	0.15888
Rittenhouse, Catherine (Transferred to Covell, Ralph)	0	0
Rittenhouse, James (Transferred to Covell, Ralph)	0	0
Rose Hills Memorial Park Association (Successor to Pacific Rock & Gravel Co.)	594.00 <u>200.00</u> 794.00	$\begin{array}{c} 0.30055 \\ \underline{0.10120} \\ 0.40175 \end{array}$
Rosemead Development, Ltd. (Successor to Thompson, Earl W.)	1.00	0.00051
Rurban Homes Mutual Water Company	217.76	0.11018
Ruth, Roy	0.75	0.00038
San Dimas-La Verne Recreational Facilities Authority (Successor to Lang, Frank) (Transferred to Kirklen, Dawn L. and William R.)	0	0
San Gabriel Country Club	286.10	0.14476
San Gabriel County Water District	4,250.00	2.15044

	<u>Pumper</u>	Prescriptive Pumping Right Acre-feet	Pumper's Share
	San Gabriel Valley Municipal Water District	0	0
	San Gabriel Valley Water Company (Successor to:	16,659.00	8.42920
	Vallecito Water Co. No. 17 Walnut Place Mutual Water Co.)	$\frac{2,867.00}{21.50}$ $\overline{19,547.50}$	1.45066 0.01088 9.89074
	Sawpit Farms, Limited (Transferred to: Eckis, Rollin Doyle and Madruga)	0	0
	Schneiderman, Alan (See Birenbaum, Max)	=.	u n
	Schneiderman, Lydia (See Birenbaum, Max)	*	=
1	Security Pacific National Bank, Co-Trustee for the Estate of Winston F. Stoody (See Stoody, Virginia A.) (Transferred to City of Whittier)	0	0
	Sierra Madre, City of	0	0
	Sloan Ranches	129.60	0.06558
	Smith, Charles	0	0
	Snyder, Harry (See Covell, et al)	_	=
	Sonoco Products Company	311.60	0.15766
	South Covina Water Service	992.30	0.50209
	Southern California Edison Company (Successor to: Associated	155.25	0.07855
	Southern Investment Company)	$\frac{16.50}{171.75}$	0.00835 0.08690
	Southern California Water Company, San Gabriel Valley District	5,773.00	2.92105
	South Pasadena, City of	3,567.70	1.80520
	Southwest Suburban Water (See Suburban Water Systems)	æ ;	-

<u>Pumper</u>	Prescriptive Pumping Right Acre-feet	Pumper's Share %
Southwestern Portland Cement Company (Successor to Azusa Western, Inc.)	742.00	0.37544
Speedway 605, Inc.	0	0
Standard Oil Company of California	2.00	0.00101
Sterling Mutual Water Company	120.00	0.06072
Stoody, Virginia A., Co-Trustee for the Estate of Winston F. Stoody (See Security Pacific National Bank, Co-Trustee)		-
Suburban Water Systems (Formerly Southwest Suburban Water)	20,462.47	10.35370
(Successor to: Hollenbeck Street Water Company La Grande Source Water Company La Puente Cooperative Water Co. Valencia Valley Water Company Victoria Mutual Water Company Cal Fin Murphy Ranch Mutual Water Co.	646.39 1,078.00 1,210.90 651.50 469.60 118.10 223.23 24,860.19	0.32706 0.54545 0.61270 0.32965 0.23761 0.05976 0.11295 12.57888
Sully-Miller Contracting Company (Successor to Blue Diamond Concrete Materials Division, The Flintkote Co.)	1,399.33	0.70804
Sunny Slope Water Company	2,228.72	1.12770
Taylor Herb Garden (Transferred to Covina Irrigating Company)	0	0
Texaco, Inc.	50.00	0.02530
Thompson, Earl W. (Held in common with Thompson, Mary) (Transferred to Rosemead Development, Ltd.)	0	0
Thompson, Mary (See Thompson, Earl W.)	¥	Œ
Tyler Nursery	3.21	0,00162
United Concrete Pipe Corporation (See U. S. Pipe & Foundry Company)	_	<u></u>

Pumper	Prescriptive Pumping Right Acre-feet	Pumper's Share
U. S. Pipe & Foundry Company (Formerly United Concrete Pipe Corporation)	376.00	0.19025
Valencia Heights Water Company	861.00	0.43565
Valencia Valley Water Company (Transferred to Suburban Water Systems)	0	0
Vallecito Water Company (Transferred to San Gabriel Valley Water Company)	0	0
Valley County Water District (Formerly Baldwin Park County Water District) (Successor to Park Water Company)	$\frac{5,775.00}{\frac{184.01}{5,959.01}}$	2.92206 0.09311 3.01517
Valley Crating Company	0	0
Valley View Mutual Water Company	616.00	0.31169
Via, H. (See Via, H., Trust of)	-	=
Via, H., Trust of (Formerly Via, H.)	46.20	0.02338
Victoria Mutual Water Company (Transferred to Suburban Water Systems)	0	0
Wade, R. (Transferred to Lloyd F. Hunter)	0	0
Ward Duck Company	1,217.40	0.61599
Warren, Clyde (See Fisher, Russell)	- ;	1
W. E. Hall Company	0.20	0.00010
White, June G., Trustee of the June G. White Share of the Garnier Trust (Successor to Denton, Kathryn W., Trustee for the San Jose Ranch Company)	185.50	0.09386

Pumper	Prescriptive Pumping Right <u>Acre-feet</u>	Pumper's Share %
Whittier, City of	7,620.23	3.85572
(Successor to:	184.00	0.09310
Grizzle, Lissa B. Pacific Rock and Gravel Co.) Security Pacific National Bank,	208.00	0.10524
Co-Trustee for the Estate of Winston F.	Stoody 38.70	0.01958
El Monte Union High School District	16.20	0.00820
Gifford, Brooks, Jr.	198.25	0.10031
Birenbaum, Max)	6.00	0.00304
,	8,271.38	4.18519
Wigodsky, Bernard (See Birenbaum, Max)	-	-
Wigodsky, Estera (See Birenbaum, Max)		=
Wilmott, Erma M. (Formerly Comby, Erma M.)	0,75	0.00038
Wilson, Harold R. (See Grizzle, Lissa B.)	·	-
	0.00	
) Wilson, Sarah C. (See Grizzle, Lissa B.)	-	-
Woodland, Frederick G.	-	-
Woodland, Richard (Successor to: Bahnsen and Beckman Ind., Inc.)		
Beckman Ind., Inc.,	840.50	0.42528
Totals for Exhibit "D"	155,800.68 4)1 833.75	78.83276 21.14 724
Totals from Exhibit "E"	38.626.25	19.54431
GRAND TOTALS	197,634.43	100.00000

TABLE SHOWING PRODUCTION RIGHTS OF EACH INTEGRATED PRODUCER AS OF JUNE 1988

<u>Party</u> Azusa Agricultural Water	Diversion Component Acre-feet	Component Acre-feet	Pumping Component Share <u>Percent (%)</u>
Company	1,000.00	1,732.20	0.87647
Azusa Foot-Hill Citrus Water Company (Transfered to Monrovia Nursery Company)	0	0	0
Nursely Company	0	0	0
Azusa Valley Water Company	2,422.00	8,274.00	4.18652
California-American Water Company			
(Duarte System)	1,672.00	3,649.00	1.84634
California Cities Water Company (See Southern California			
Water Company, San Dimas	1		
District)	177	-	3 51
Covina Irrigating Company (Successor to:	2,514.00	4,140.00	2.09478
City of Covina, City of Covina, and		1,734.00 300.00	0.87737 0.15179
Taylor Herb Garden)		6.00	0.00304
	2,514.00	6,180.00	3.12698
Glendora, City of (Successor to:	17.00	8,258.00	4.17842
Maechtlen, Estate of J Maechtlen, Trust of P. A. Ruebhausen, Arline, and Glendora Unified High School District)	J., ., 18.34	150.00 50.00	
	<u> </u>	9.00	0.05009
	35.34	8,557.00	4.32971
Los Angeles, County of	310.00	3,721.30	1.88292
Maechtlen, Estate of J. J. (Transferred to:	0	301.50	0.15256
City of Glendora Miller Brewing Company)	0		-0.07590 -0.07666

Î	Party	Diversion Componet Acre-feet	Prescriptive Pumping Component Acre-feet	Pumping Component Share <u>%</u>
	Maechtlen, Estate of J. J.	1.49	0	0
	Maechtlen, Trust of P. A. (Transferred to:	0.50	100.50	0.05085
City of Glendor	City of Glendora Alice B. Phillips, et al	$\frac{-0.50}{0}$	-50.00 -50.50 0	-0.02530 -0.02555 0
	The Metropolitan Water Dis of Southern California	trict 9.59	165.00	0.08349
	Monrovia, City of (Sucessor to:	1,098.00	5,042.22	2.55129
Eckis, Rollin City of Arcadia)	Eckis, Rollin	1,098.00	$\frac{123.00}{951.00}$ 6,116.22	$\begin{array}{c} 0.06224 \\ \underline{0.48119} \\ 3.09472 \end{array}$
	Monrovia, Nursery Company (Successor to: Azusa Foot-Hill Citrus C	239.50	0	0
)	Phillips, Alice B., et al (Successor to:	0., 718.30	U	
	Maechtlen, Trust of P. A (Transferred to:	.) 0.50	50.50	0.02530
	Miller Brewing Company)	0.50	$\frac{-50.00}{0.50}$	$\frac{-0.02530}{0.00025}$
	Southern California Water Company (San Dimas Dist.) (Formerly California Cit Water Company) (Successor to:	500.00 ies	3,242.53	1.64076
	Namimatsu Farms)	500.00	$\frac{196.00}{3,438.53}$	$\frac{0.09917}{1.73984}$
	TOTAL for Exhibit "E"	10,520.92	41,833.75	21.16724

TABLE SHOWING SPECIAL CATAGORY RIGHTS

PARTY

Nature of Right

The Metropolitan Water District of Southern California Morris Reservoir Storage and Withdrawal

- (a) A right to divert, store and use San Gabriel River Water, pursuant to Permit No. 7174.
- (b) Prior and paramount right to divert 72 acre-feet annually to offset Morris Reservoir evaporation and seepage losses and to provide the water supply necessary for presently existing incidential Morris Dam facilities.

Los Angeles County Flood Control District (Now Los Angeles County Department of Public Works)

Puddingstone Reservoir
Prior Prescriptive right to divert water from San Dimas Wash for storage in Puddingstone Reservoir in quantities sufficient to offset annual evaporation and seepage losses of the reservoir at approximate elevation 942.

TABLE SHOWING NON-CONSUMPTIVE USERS

Party

1

Covina Irrigating Company Azusa Valley Water Company Azusa Agricultural Water Co. Azusa Foot-Hill Citrus Co. Monrovia Nursery Company

California-American Water Company (Duarte System)

City of Glendora

San Gabriel Valley Protective Association

California Cities Water Company

Los Angeles County Flood Control District

Nature of Right

"Committee-of-Nine" Spreading Right To continue to divert water from the San Gabriel River pursuant to the 1888 Settlement, and to spread in spreading grounds within the Basin all water thus diverted without the right to recapture water in excess of said parties' rights as adjudicated in Exhibit "E".

Spreading Right

To continue to divert water from the San Gabriel River pursuant to the 1888 Settlement, and to continue to divert water from Fish Canyon and to spread said waters in its spreading grounds in the Basin without the right to recapture water in excess of said party's rights as adjudicated in Exhibit "E".

Spreading Right

To continue to spread the water of Big and Little Dalton Washes, pursuant to License No. 2592 without the right to recapture water in excess of said party's rights as adjudicated in Exhibit "E".

Spreading Right

To continue to spread San Gabriel River water pursuant to License Nos. 9991 and 12,209, without the right to recapture said water.

Spreading Right

To continue to spread waters from San Dimas Wash without the right to recapture water in excess of said party's rights as adjudicated in Exhibit "E".

Temporary storage of storm flow for regulatory purposes;

Spreading and conservation for general benefit in streambeds, reservoirs and spreading grounds without the right to recapture said water.

Maintenance and operation of dams and other flood control works.

EXHIBIT "H"

WATERMASTER OPERATING CRITERIA

1. Basin Storage Capacity. The highest water level at the end of a water year during the past 40 years was reached at the Key Well on September 30, 1944 (elevation 316). The State of California, Department of Water Resources, estimates that as of that date, the quantity of fresh water in storage in the Basin was approximately 8,600,000 acre-feet. It is also estimated by said Department that by September 30, 1960, the quantity of fresh water in storage had decreased to approximately 7,900,000 acre-feet (elevation 237) at the Key Well).

The lowest water level at the end of a water year during the past 40 years was reached at the Key Well on September 30, 1965 (elevation 209). It is estimated that the quantity of fresh water in storage in the Basin on that date was approximately 7,700,000 acre-feet.

)

Thus, the maximum utilization of Basin storage was approximately 900,000 acre-feet, occurring between September 30, 1944, and September 30, 1965 (between elevations 316 and 209 at the Key Well). This is not to say that more than 900,000 acre-feet of storage space below the September 30, 1944 water levels cannot be utilized. However, it demonstrates that pumpers have deepened their wells and lowered their pumps so that such 900,000 acre-feet of storage can be safely and economically utilized.

The storage capacity of the Basin between elevations of 200 and 250 at the Key Well represents a usable volume of approximately 400,000 acre-feet of water.

- 2. Operating Safe Yield and Spreading. Watermaster in determining Operating Safe Yield and the importation of Replacement Water shall be guided by water level elevations in the Basin. He shall give recognition to, and base his operations on, the following general objectives insofar as practicable:
 - (a) The replenishment of ground water from sources of supplemental water should not cause excessively high levels of ground water and such replenishment should not cause undue waste of local water supplies.
 - (b) Certain areas within the Basin are not at the present time capable of being recharged with supplemental water. Efforts should be made to provide protection to such areas from excessive ground water lowering either through the "in lieu" provisions of the Judgment or by other means.
 - (c) Watermaster shall consider and evaluate the long-term consequences on ground water quality, as well as quantity, in determining and establishing Operating Safe Yield.

 Recognition shall be given to the enhancement of ground water quality insofar as practicable, especially in the area immediately upstream of Whittier Narrows where degradation of water quality may occur when water levels at the Key Well are maintained at or below elevation 200.
 - (d) Watermaster shall take into consideration the comparative costs of supplemental and Make-up Water in determining the savings on a present value basis of temporary or permanent lowering or raising of water levels and other economic data and analyses indicating both the short-term and long-term

- propriety of adjusting Operating Safe Yield in order to derive optimum water levels during any period. Watermaster shall utilize the provisions in the Long Beach Judgment which will result in the least cost of delivering Make-up Water.
- 3. Replacement Water -- Sources and Recharge Criteria. The following criteria shall control purchase of Replacement Water and Recharge of the Basin by Watermaster.
 - (a) Responsible Agency From Which to Purchase. Watermaster, in determining the Responsible Agency from which to purchase supplemental water for replacement purposes, shall be governed by the following:
 - (1) Place of Use of Water which is used primarily within the Basin or by cities within San Gabriel District in areas within or outside the Basin shall control in determining the Responsible Agency. For purposes of this subparagraph, water supplied through a municipal water system which lies chiefly within the Basin shall be deemed entirely used within the Basin; and
 - (2) Place of production of water shall control in determining the Responsible Agency as to water exported from the Basin, except as to use within San Gabriel District.

Any Responsible Agency may, at the request of Watermaster, waive its right to act as the source for such supplemental water, in which case Watermaster shall be free to purchase such water from the remaining Responsible Agencies which are the most beneficial and appropriate sources; provided, however, that a Responsible Agency shall not

authorize any sale of water in violation of the California Constitution.

- (b) <u>Water Quality.</u> Watermaster shall purchase the best quality of supplemental water available for replenishment of the Basin, pursuant to subsection (a) hereof.
- economic and physical necessity for utilization of reclaimed water is increasing. The purchase of reclaimed water in accordance with the Long Beach Judgment to satisfy the Make-up Obligation is expressly authorized. At the same time, water quality problems involved in the reuse of water within the Basin pose serious questions of increased costs and other problems to the pumpers, their customers and all water users. Accordingly, Watermaster is authorized to gather information, make and review studies, and make recommendations on the feasibility of the use of reclaimed water for replacement purposes; provided that no reclaimed water shall be recharged in the Basin by Watermaster without the prior approval of the court, after notice to all parties and hearing thereon.
- 4. Replacement Assessment Rates. The Replacement Assessment rates shall be in an amount calculated to allow Watermaster to purchase one acre-foot of supplemental water for each acre-foot of excess Production to which such Assessment applies.

EXHIBIT "J"

PUENTE NARROWS AGREEMENT

THIS AGREEMENT is made and entered into as of the 8th day of May, 1972, by and between PUENTE BASIN WATER AGENCY, herein called "Puente Agency", and UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT, herein called "Upper District".

A. RECITALS

- agency composed of Walnut Valley Water District, herein called "Walnut District", and Rowland Area County Water District, herein called "Rowland District". Puente Agency is formed for the purpose of developing and implementing a ground water basin management program for Puente Basin.

 Pursuant to said purpose, said Agency is acting as a representative of its member districts and of the water users and water right claimants therein in the defense and maintenance of their water rights within Puente Basin.
- 2. Upper District. Upper District is a municipal water district overlying a major portion of the Main San Gabriel Basin. Upper District is plaintiff in the San Gabriel Basin Case, wherein it seeks to adjudicate rights and implement a basin management plan for the Main San Gabriel Basin.
- 3. <u>Puente Basin</u> is a ground water basin tributary to the Main San Gabriel Basin. Said area was included within the scope of the San Gabriel Basin Case and substantially

all water rights claimants within Puente Basin were joined as defendants therein. The surface contribution to the Main San Gabriel Basin from Puente Basin is by way of the paved flood control channel of San Jose Creek, which passes through Puente Basin from the Pomona Valley area. Subsurface outflow is relatively limited and moves from the Puente Basin to the Main San Gabriel Basin through Puente Narrows.

- 4. Intent of Agreement. Puente Agency is prepared to assure Upper District that no activity within Puente Basin will hereafter be undertaken which will (1) interfere with surface flows in San Jose Creek, or (2) impair the subsurface flow from Puente Basin to the Main San Gabriel Basin. Walnut District and Rowland District, by operation of law and by express assumption endorsed hereon, assume the covenants of this agreement as a joint and several obligation. Based upon such assurances and the covenants hereinafter contained in support thereof, Upper District consents to the dismissal of all Puente Basin parties from the San Gabriel Basin Case. By reason of said dismissals, Puente Agency will be free to formulate a separate water management program for Puente Basin.
 - B. DEFINITIONS AND EXHIBITS
- 5. <u>Definitions</u>. As used in this Agreement, the following terms shall have the meanings herein set forth:
 - (a) Annual or Year refers to the fiscal year July 1 through June 30.
 - (b) Base Underflow. The underflow through

Puente Narrows which Puente Agency agrees to maintain, and on which accrued debits and credits shall be calculated.

- (c) Make-up Payment. Make-up payments shall be an amount of money payable to the Watermaster appointed in the San Gabriel Basin Case, sufficient to allow said Watermaster to purchase replacement water on account of any accumulated deficit as provided in Paragraph 9 hereof.
- (d) <u>Puente Narrows</u>. The subsurface geologic constriction at the downstream boundary of Puente Basin, located as shown on Appendix "B".
- (e) Main San Gabriel Basin, the ground water basin shown and defined as such in Exhibit "A" to the Judgment in the San Gabriel Basin Case.
- (f) San Gabriel Basin Case. Upper San Gabriel

 Valley Municipal Water District v. City of Alhambra,
 et al., L. A. Sup. Ct. No. 924128, filed January
 2, 1968.
- 6. Appendices. Attached hereto and by this reference made a part hereof are the following appendices:
 - "A" -- Location Map of Puente Basin, showing major geographic, geologic, and hydrologic features.
 - "B" -- Map of Cross-Section Through Puente

 Narrows, showing major physical features and location
 of key wells.

"C" -- Engineering Criteria, being a description of a method of measurement of subsurface outflow to be utilized for Watermaster purposes.

C. COVENANTS

- 7. Watermaster. There is hereby created a two member Watermaster service to which each of the parties to this agreement shall select one consulting engineer. The respective representatives on said Watermaster shall serve at the pleasure of the governing body of each appointing party and each party shall bear its own Watermaster expense.
 - a. Organization. Watermaster shall perform the duties specified herein on an informal basis, by unanimous agreement. In the event the two representatives are unable to agree upon any finding or decision, they shall select a third member to act, pursuant to the applicable laws of the State of California. Thereafter, until said issue is resolved, said three shall sit formally as a board of arbitration. Upon resolution of the issue in dispute, the third member shall cease to function further.
 - b. Availability of Information. Each party hereto shall, for itself and its residents and water users, use its best efforts to furnish all appropriate information to the Watermaster in order that the required determination can be made.

- c. Cooperation With Other Watermasters. Watermaster hereunder shall cooperate and coordinate activities with the Watermasters appointed in the San Gabriel Basin Case and in Long Beach v. San Gabriel Valley Water Company, et al.
- d. <u>Determination of Underflow</u>. Watermaster shall annually determine the amount of underflow from Puente Basin to the San Gabriel Basin, pursuant to Engineering Criteria.
- e. Perpetual Accounting. Watermaster shall maintain a perpetual account of accumulated base underflow, accumulated subsurface flow, any deficiencies by reason of interference with surface flows, and the offsetting credit for any make-up payments. Said account shall annually show the accumulated credit or debit in the obligation of Puente Agency to Upper District.
- f. Report. Watermaster findings shall be incorporated in a brief written report to be filed with the parties and with the Watermaster in the San Gabriel Basin Case. Said report shall contain a statement of the perpetual account heretofore specified.
- 8. <u>Base Underflow</u>. On the basis of a study and review of historic underflow from Puente Basin to the Main San Gabriel Basin, adjusted for the effect of the paved flood control channel and other relevant considerations, it is

mutually agreed by the parties that the base underflow is and shall be 580 acre feet per year, calculated pursuant to Engineering Criteria.

- 9. <u>Puente Agency's Obligation</u>. Puente Agency covenants, agrees and assumes the following obligation hereunder:
 - Noninterference with Surface Flow. Neither a. Puente Agency nor any persons or entities within the corporate boundaries of Walnut District or Rowland District will divert or otherwise interfere with or utilize natural surface runoff now or hereafter flowing in the storm channel of San Jose Creek; provided, however, that this covenant shall not prevent the use, under Watermaster supervision, of said storm channel by the Puente Agency or Walnut District or Rowland District for transmission within Puente Agency of supplemental or reclaimed water owned by said entities and introduced into said channel solely for transmission purposes. In the event any unauthorized use of surface flow in said channel is made contrary to the covenant herein provided, Puente Agency shall compensate Upper District by utilizing any accumulated credit or by make-up payment in the same manner as is provided for deficiencies in subsurface outflow from Puente Basin.
 - b. Subsurface Outflow. To the extent that

the accumulated subsurface outflow falls below
the accumulated base underflow and the result
thereof is an accumulated deficit in the Watermaster's
annual accounting, Puente Agency agrees to provide
make-up payments during the next year in an amount
not less than one-third of the accumulated
deficit.

- c. <u>Purchase of Reclaimed Water</u>. To the extent that Puente Agency or Walnut District or Rowland District may hereafter purchase reclaimed water from the facilities of Sanitation District 21 of Los Angeles County, such purchaser shall use its best efforts to obtain waters originating within San Gabriel River Watershed.
- 10. Puente Basin Parties Dismissal. In consideration of the assumption of the obligation hereinabove provided by Puente Agency, Upper District consents to entry of dismissals as to all Puente Basin parties in San Gabriel Basin Case. This agreement shall be submitted for specific approval by the Court and a finding that it shall operate as full satisfaction of any and all claims by the parties within Main San Gabriel Basin against Puente Basin parties by reason of historic surface and subsurface flow.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed as of the day and date first above written.

Approved CLAYSON,		form: ROTHROCK	& MANN
By Atto	/ij/A	Liff Puente	Hush Agency

By EDMOND M. BIEDERMAN
President

Approved as to form:

Attorney for Upper District

UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT

PUENTE BASIN AGENCY

By Howard H. Hawkins

The foregoing agreement is approved and accepted, and the same is acknowledged as the joint and several obligation of the undersigned.

Approved as to form:

Manchy

WALNUT VALLEY WATER DISTRICT

Attorney for Walnut Distric

D P. BOURDET

Approved as to form:

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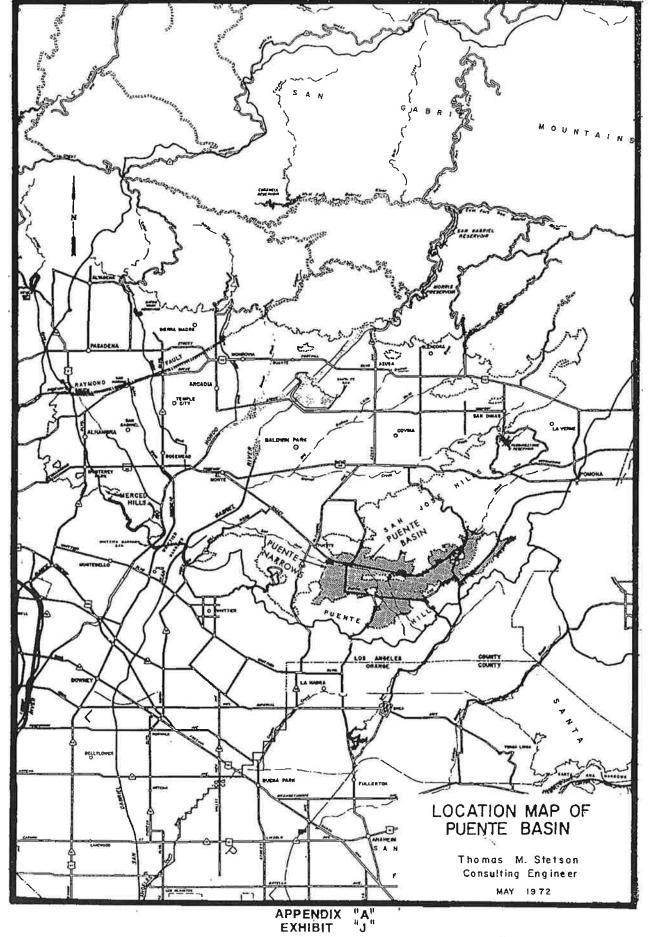
Vice President

Attornous for Souther Digital

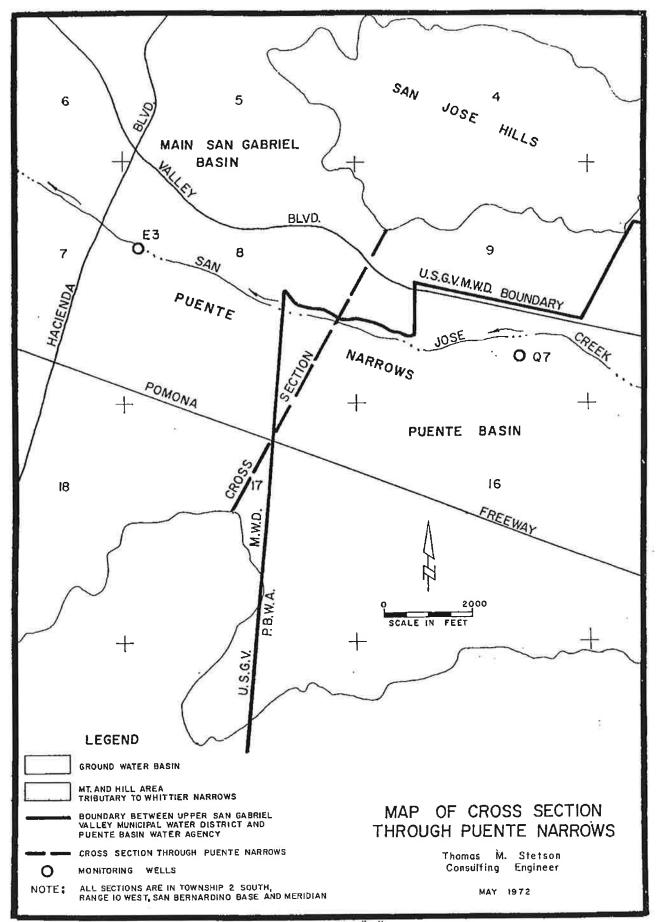
ROWLAND AREA COUNTY WATER
DISTRICT

Pres dent

Wm. A. Simous



J - 9



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APPENDIX "B"
EXHIBIT "J"
J - 10

ENGINEERING CRITERIA

APPENDIX "C"

- 1. Monitoring Wells. The wells designated as State Wells No. 2S/10W-9Q7 and 2S/10W-8E3 and Los Angeles County Flood Control District Nos. 3079M and 3048B, respectively, shall be used to measure applicable ground water elevations. In the event either monitoring well should fail or become unrepresentative, a substitute well shall be selected or drilled by Watermaster. The cost of drilling a replacement well shall be the obligation of the Puente Agency.
- 2. Measurement. Each monitoring well shall be measured and the ground water elevation determined semi-annually on or about April 1 and October 1 of each year. Prior to each measurement, the pump shall be turned off for a sufficient period to insure that the water table has recovered to a static or near equilibrium condition.
- 3. Hydraulic Gradient. The hydraulic gradient, or slope of the water surface through Puente Narrows, shall be calculated between the monitoring wells as the difference in water surface elevation divided by the distance, approximately 9,000 feet, between the wells. The hydraulic gradient shall be determined for the spring and fall and the average hydraulic gradient calculated for the year.
- 4. Ground Water Elevation at Puente Narrows Cross
 Section. The ground water elevation at the Puente Narrows

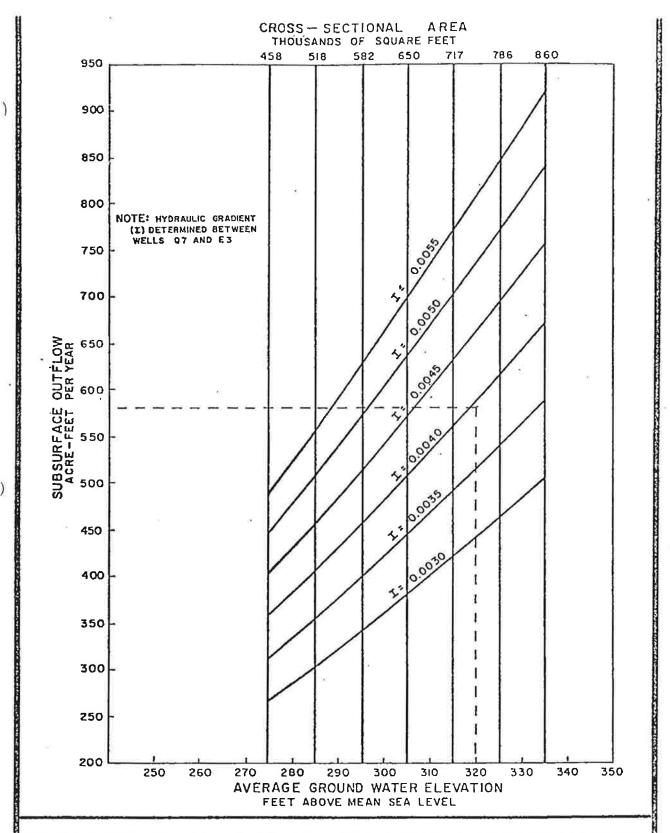
APPENDIX "C"

Exhibit "J"

cross section midway between the monitoring wells shall be the average of the ground water elevation at the two wells. This shall be determined for the spring and fall and the average annual ground water elevation calculated for the year.

5. Determination of Underflow. The chart attached is a photo-reduction of a full scale chart on file with the Watermaster. By applying the appropriate average annual hydraulic gradient (I) to the average annual ground water elevation at the Puente Narrows cross section (involving the appropriate cross-sectional area [A]), it is possible to read on the vertical scale the annual acre feet of underflow.

APPENDIX "C" Exhibit "J"



RELATIONSHIP OF AVERAGE GROUND WATER ELEVATION AT PUENTE NARROWS AND APPLICABLE CROSS-SECTIONAL AREA WITH SUBSURFACE OUTFLOW THROUGH PUENTE NARROWS FOR VARIOUS HYDRAULIC GRADIENTS

Thomas M. Stetson Consulting Engineer MAY 1972

EXHIBIT "K"

OVERLYING RIGHTS

I. NATURE OF OVERLYING RIGHT

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An "Overlying Right" is the right to Produce water from the Main San Gabriel Basin for use on the overlying lands hereinafter described. Such rights are exercisable without quantitative limit only on said overlying land and cannot be separately conveyed or transferred apart therefrom. The exerciser of such right is assessable by Watermaster as provided in Paragraph 21 of the Amended Judgment herein (prior Paragraph 14.5 of the Judgment herein) and is subject to the other provisions of said Paragraph.

II. OVERLYING LANDS (Description)

The overlying lands to which Overlying Rights are appurtenant are described as follows:

"Those portions of Lots 1 and 2 of the lands formerly owned by W.A. Church, in the Rancho San Francisquito, in the City of Irwindale, County of Los Angeles, State of California, as shown on recorder's filed map No. 509, in the office of the County Recorder of said County, lying northeasterly of the northeasterly line and its southeasterly prolongation of Tract 1888, as shown on map recorded in Book 21 page 183 of Maps, in the office of the County Recorder of said County.

"EXCEPT the portions thereof lying northerly and northwesterly of the center line of Arrow Highway described 'Sixth' and the center line of Live Oak Avenue described 'Third' in a final decree of condemnation, a certified copy of which was recorded August 18, 1933 as Instrument No. 354, in Book 12289, Page 277, Official Records.

"ALSO EXCEPT that portion of said land described in the final decree of condemnation entered in Los Angeles County Superior Court Case No. 805008, a certified copy of which was recorded September 21, 1964, as Instrument No. 3730, in Book D-2634, Page 648, Official Records."

III. PRODUCERS ENTITLED TO EXERCISE OVERLYING RIGHTS AND THEIR RESPECTIVE CONSUMPTIVE USE PORTIONS

The persons entitled to exercise Overlying Rights are both the owners of Overlying Rights and persons and entities licensed by such owners to exercise such Overlying Rights.

The persons entitled to exercise Overlying Rights and their respective Consumptive Use portions are as follows:

OWNER PRODUCERS

CONSUMPTIVE USE PORTION

BROOKS GIFFORD, SR.
BROOKS GIFFORD, JR.
PAUL MNOIAN
JOHN MGRDICHIAN
J. EARL GARRETT

3.5 acre-feet per year

<u>Present User:</u> Nu-Way Industries

PRODUCERS UNDER LICENSE

A. WILLIAM C. THOMAS
and EVELYN F. THOMAS,
husband and wife, and
MALCOLM K. GATHERER
and JACQUELINE GATHERER,
husband and wife,
doing business by
and through B & B
REDI-I-MIX CONCRETE,
INC., a corporation

45.6 acre-feet per year

B. PRE-STRESS CRANE RIGGING & TRUCK CO., INC., a corporation

1.0 acre-foot per year

Present Users:
Pre-Stress Crane Rigging &
Truck Co., Inc., a corporation

Total 50.1 acre-feet per year

IV. ANNUAL GROSS AMOUNT OF PRODUCTION FROM WHICH CONSUMPTIVE USE PORTIONS WERE DERIVED

183.65 acre-feet

Exhibit "L"

LIST OF PRODUCERS AND THEIR DESIGNEES June, 1989

Producer Name	Designee
${ ilde \Delta}$ Adams Ranch Mutual Water Company	Goji Iwakiri
Alhambra, City of	T. E. Shollenberger
Amarillo Mutual Water Company	Ester Guadagnolo
Anderson, Ray	Ray Anderson
Andrade, Macario, et al.	Macario R. Andrade
Arcadia, City of	Eldon Davidson
AZ-Two, Inc.	R. S. Chamberlain
Azusa, City of	William H. Redcay
Azusa Ag. Water Company	Robert E. Talley
Azusa Valley Water Company	Edward Heck
Baldwin Park County Water District (See Valley County Water District)	
Banks, Gale C.	Gale C. Banks
Base Line Water Company	Everett W. Hughes, Jr.
Beverly Acres Mutual Water User's Assn. (Formerly Beverly Acres Mutual Water Co.)	Eloise A. Moore
Burbank Development Company	Darrell A. Wright
Cadway, Inc. $\frac{\underline{C}}{}$	P. Geoffrey Nunn
California-American Water Company (San Marino System)	Andrew A. Krueger
California-American Water Company (Duarte System)	Andrew A. Krueger
California Country Club	Henri F. Pellissier
California Domestic Water Company	P. Geoffrey Nunn

Exhibit "L" L - 1 Austin L. Knapp

Cedar Avenue Mutual Water Company

Producer Name

Champion Mutual Water Company

Chevron, USA, Inc.

Clayton Manufacturing Company

Conrock Company

Corcoran Brothers

County Sanitation District No. 18

Covell, et al.

Covell, Ralph

Covina, City of

Covina Irrigating Company

Crevolin, A. J.

Crown City Plating Company

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Davidson Optronics, Inc.

Dawes, Mary Kay

Del Rio Mutual Water Company

Driftwood Dairy

Dunning, George

East Pasadena Water Company

El Monte, City of

El Monte Cemetery Association

Faix, Ltd.

Glendora, City of

Green, Walter

. 414-.

Hansen, Alice

Designee

Margaret Bauwens

Ms. Margo Bart

Don Jones

Gene R.Block

Ray Corcoran

Charles W. Curry

Darr Jobe

Ralph Covell

Wayne B. Dowdey

William R. Temple

A. J. Crevolin

N. G. Gardner

James McBride

Mary Kay Dawes

Gonzalo Galindo

James E. Dolan

George Dunning

Robert D. Mraz

Robert J. Pinniger

Linn E. Magoffin

Henri F. Pellissier

Arthur E. Cook

Dr. Walter Green

Alice Hansen

Exhibit "L"

Producer Name

Hartley, David

Hemlock Mutual Water Company

Hunter, Lloyd F.

Industry Waterworks System, City of

Kiyan Farm

Kiyan, Hideo

Kirklen Family Trust

Knight, Kathryn M.

<u>L</u> Landeros, John

La Puente Valley County Water District

La Verne, City of

Livingston-Graham

Los Angeles, County of

Loucks, David

Maddock, A. G.

Maechtlen, Trust of J. J.

Maple Water Company, Inc.

Martinez, Francis Mercy

Metropolitan Water District of Southern California

Miller Brewing Company

Mnoian, Paul, et al.

Monrovia, City of

Monrovia Nursery

Monterey Park, City of

Designee

David Hartley

Bud Selander

Lloyd F. Hunter

Mary L. Jaureguy

Mrs. Hideo Kiyan

Dawn Kirklen

William J. Knight

John Landeros

Mary L. Jaureguy

N. Kathleen Hamm

Gary O. Tompkins

Robert L. Larson

David Loucks

Ranney Draper, Esq.

Jack F. Maechtlen

Charles King

Francis Mercy Martinez

Fred Vendig, Esq.

Dennis B. Puffer

Mal Gatherer

Robert K. Sandwick

Miles R. Rosedale

Nels Palm

Producer Name

 $\frac{N}{N}$ Nick Tomovich & Sons

Owl Rock Products Company

Phillips, Alice B., et al.

Pico County Water District

Polopolus, et al.

Rados Brothers

Richwood Mutual Water Company

Rincon Ditch Company

Rincon Irrigation Company

Rose Hills Memorial Park Association

Rosemead Development, Ltd.

Rurban Homes Mutual Water Company

Ruth, Roy

San Dimas - La Verne Recreational Facilities Authority

San Gabriel Country Club

San Gabriel County Water District

San Gabriel Valley Municipal Water District

San Gabriel Valley Water Company

Sloan Ranches

Sonoco Products Company

South Covina Water Service

Southern California Edison Company

Designee

Nick Tomovich

Peter L. Chiu

Jack F. Maechtlen

Robert P. Fuller

Christine Chronis

Alexander S. Rados

Bonnie Pool

K. E. Nungesser

K. E. Nungesser

Allan D. Smith

John W. Lloyd

George W. Bucey

Roy Ruth

R. F. Griszka

Fran Wolfe

Philip G. Crocker

Bob Stallings

Robert H. Nicholson, Jr.

Larry R. Sloan

Elaine Corboy

Anton C. Garnier

S. R. Shermoen

Exhibit "L"

Producer Name	<u>Designee</u>
Southern California Water Company -San Dimas District	J. F. Young
Southern California Water Company -San Gabriel Valley District	J. F. Young
South Pasadena, City of	John Bernardi
Southwestern Portland Cement Company	Dale W. Heineck
Standard Oil Company of California	John A. Wild
Sterling Mutual Water Company	Bennie L. Prowett
Suburban Water Systems	Anton C. Garnier
Sully-Miller Contracting Company	R. R. Munro
Sunny Slope Water Company	Michael J. Hart
_ , <u>T</u> ,	n 10 m 1
Taylor Herb Garden	Paul S. Taylor
Texaco, Inc.	E. O. Wakefield
Tyler Nursery	James K. Mitsumori, Esq.
$\underline{\underline{U}}$ United Concrete Pipe Corporation	Doyle H. Wadley
United Rock Products Corporation	William S. Capps, Esq.
$rac{\underline{\mathtt{V}}}{\mathtt{Valencia}}$ Water Company	Herman Weskamp
Valley County Water District (Formerly Baldwin Park County Water District)	Stanley D. Yarbrough
Valley View Mutual Water Company	Robert T. Navarre
Via, H., Trust of	Marverna Parton
<u>w</u>	
Ward Duck Company	Richard J. Woodland
W. E. Hall Company	Thomas S. Bunn, Jr., Esq.
White, June G., Trustee	June G. Lovelady
Whittier, City of	Neil Hudson
Wilmott, Erma M.	Erma M. Wilmott

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Exhibit "M"

WATERMASTER MEMBERS

FOR CALENDAR YEAR 1973

ROBERT T. BALCH (Producer Member), Chairman

LINN E. MAGOFFIN (Producer Member), Vice Chairman

RICHARD L. ROWLAND (Producer Member), Secretary

BOYD KERN (Public Member), Treasurer

WALKER HANNON (Producer Member)

1

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HOWARD H. HAWKINS (Public Member)

M. E. MOSLEY (Producer Member)

CONRAD T. REIBOLD (Public Member)

HARRY C. WILLS (Producer Member)

STAFF

Carl Fossette, Assistant Secretary-Assistant Treasurer Ralph B. Helm, Attorney Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1974

ROBERT T. BALCH (Producer Member), Chairman

LINN E. MAGOFFIN (Producer Member), Vice Chairman

RICHARD L. ROWLAND (Producer Member), Secretary

BOYD KERN (Public Member), Treasurer

WALKER HANNON (Producer Member)

BURTON E. JONES (Public Member)

M. E. MOSLEY (Producer Member)

CONRAD T. REIBOLD (Public Member)

HARRY C. WILLS (Producer Member)

STAFF

Carl Fossette, Assistant Secretary-Assistant Treasurer Ralph B. Helm, Attorney Thomas M. Stetson. Engineer

Exhibit "M" M - 1

ROBERT T. BALCH (Producer Member), Chairman

LINN E. MAGOFFIN (Producer Member), Vice Chairman

HARRY C. WILLS (Producer Member), Secretary

BOYD KERN (Public Member), Treasurer

WALKER HANNON (Producer Member)

BURTON E. JONES (Public Member)

D. J. LAUGHLIN (Producer Member)

M. E. MOSLEY (Producer Member)

CONRAD T. REIBOLD (Public Member)

STAFF

Carl Fossette, Assistant Secretary-Assistant Treasurer Ralph B. Helm, Attorney Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1976

ROBERT T. BALCH (Producer Member), Chairman

LINN E. MAGOFFIN (Producer Member), Vice Chairman

HARRY C. WILLS (Producer Member), Secretary

BOYD KERN (Public Member), Treasurer

WALKER HANNON (Producer Member)

BURTON E. JONES (Public Member)

D. J. LAUGHLIN (Producer Member)

M. E. MOSLEY (Producer Member)

CONRAD T. REIBOLD (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer Ralph B. Helm, Attorney Thomas M. Stetson, Engineer

ROBERT T. BALCH (Producer Member), Chairman

LINN E. MAGOFFIN (Producer Member), Vice Chairman

HARRY C. WILLS (Producer Member), Secretary

CONRAD T. REIBOLD (Public Member), Treasurer

WALKER HANNON (Producer Member)

BURTON E. JONES (Public Member)

BOYD KERN (Public Member)

D. J. LAUGHLIN (Producer Member)

R. H. NICHOLSON, JR. (Producer Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer)
Ralph B. Helm, Attorney
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1978

ROBERT T. BALCH (Producer Member), Chairman

LINN E. MAGOFFIN (Producer Member), Vice Chairman

D. J. LAUGHLIN (Producer Member), Secretary

CONRAD T. REIBOLD (Public Member), Treasurer

WALKER HANNON (Producer Member)

BURTON E. JONES (Public Member)

L. E. MOELLER (Producer Member)

R. H. NICHOLSON, JR. (Producer Member)

WILLIAM M. WHITESIDE (Public Member)

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D. J. LAUGHLIN (Producer Member), Vice Chairman

R. H. NICHOLSON, JR. (Producer Member), Secretary

CONRAD T. REIBOLD (Public Member), Treasurer

WALKER HANNON (Producer Member)

BURTON E. JONES (Public Member)

L. E. MOELLER (Producer Member)

WILLIAM M. WHITESIDE (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer Ralph B. Helm, Attorney Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1980

LINN E. MAGOFFIN (Producer Member), Chairman

R. H. NICHOLSON, JR. (Producer Member), Vice Chairman

WILLIAM M. WHITESIDE (Pulic Member), Secretary

CONRAD T. REIBOLD (Public Member), Treasurer

ROBERT T. BALCH (Producer Member)

ROBERT G. BERLIEN (Producer Member)

ANTON C. GARNIER (Producer Member)

TRAVIS L. MANNING (Public Member)

L. E. MOELLER (Producer Member)

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ANTON C. GARNIER (Producer Member)

TRAVIS L. MANNING (Public Member)

L. E. MOELLER (Producer Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer Ralph B. Helm, Attorney Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1982

LINN E. MAGOFFIN (Producer Member), Chairman

R. H. NICHOLSON, JR. (Producer Member), Vice Chairman

WILLIAM M. WHITESIDE (Public Member), Secretary

CONRAD T. REIBOLD (Public Member), Treasurer

ROBERT T. BALCH (Producer Member)

ROBERT G. BERLIEN (Producer Member)

ANTON C. GARNIER (Producer Member)

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DONALD F. CLARK (Public Member)

ANTON C. GARNIER (Producer Member)

L. E. MOELLER (Producer Member)

ALFRED R. WITTIG (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer Ralph B. Helm, Attorney Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1984

LINN E. MAGOFFIN (Producer Member), Chairman

R. H. NICHOLSON, JR. (Producer Member), Vice Chairman

ROBERT G. BERLIEN (Producer Member), Secretary

CONRAD T. REIBOLD (Public Member), Treasurer

ROBERT T. BALCH (Producer Member)

DONALD F. CLARK (Public Member)

ANTON C. GARNIER (Producer Member)

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CONRAD T. REIBOLD (Public Member), Treasurer

ROBERT T. BALCH (Product Member)

DONALD F. CLARK (Public Member)

ANTON C. GARNIER (Producer Member)

L. E. MOELLER (Producer Member)

ALFRED R. WITTIG (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer Ralph B. Helm, Attorney Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1986

LINN E. MAGOFFIN (Producer Member), Chairman

R. H. NICHOLSON, JR. (Producer Member), Vice Chairman

ROBERT G. BERLIEN (Producer Member), Secretary

CONRAD T. REIBOLD (Public Member), Treasurer

ROBERT T. BALCH (Producer Member)

DONALD F. CLARK (Public Member)

L. E. MOELLER (Producer Member)

REGINOLD A. STONE (Producer Member)

ALFRED R. WITTIG (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer Ralph B. Helm, Attorney Thomas M. Stetson, Engineer

LINN E. MAGOFFIN (Producer Member), Chairman

REGINALD A. STONE (Producer Member), Vice Chairman

L. E. MOELLER (Producer Member), Secretary

ALFRED R. WITTIG (Public Member), Treasurer

ROBERT T. BALCH (Producer Member)

GERALD J. BLACK (Producer Member)

DONALD F. CLARK (Public Member)

EDWARD R. HECK (Producer Member)

JOHN E. MAULDING (Public Member)

STAFF

Robert G. Berlien, Assistant Secretary-Assistant Treasurer Ralph B. Helm, Attorney Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1988

LINN E. MAGOFFIN (Producer Member), Chairman

REGINALD A. STONE (Producer Member), Vice Chairman

L. E. MOELLER (Producer Member), Secretary

ALFRED R. WITTIG (Public Member), Treasurer

ROBERT T. BALCH (Producer Member)

GERALD J. BLACK (Producer Member)

DONALD F. CLARK (Public Member)

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GERALD G. BLACK (Producer Member), Secretary

ALFRED R. WITTIG (Public Member), Treasurer

ROBERT T. BALCH (Producer Member) *

DONALD F. CLARK (Public Member)

EDWARD R. HECK (Producer Member)

BURTON E. JONES (Public Member)

NELS PALM (Producer Member) **

THOMAS E. SCHOLLENBERGER (Producer Member)

STAFF

Robert G. Berlien, Assistant Secretary-Assistant Treasurer Ralph B. Helm, Attorney Thomas M. Stetson, Engineer

* DECEASED APRIL 25, 1989

** Appointed August 24, 1989, for the balance of the calendar year term, to replace deceased member, Robert T. Balch.

APPENDIX E Rules and Regulations of the Main San Gabriel Basin Watermaster



Rules and Regulations

Upper San Gabriel Valley Municipal Water District v. City of Alhambra, et al.
Case No. 924128 -- Superior Court of Los Angeles County

As amended December 7, 2005 and June 6, 2007 Resolutions 12-05-201 and 6-07-213

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RULES AND REGULATIONS OF

MAIN SAN GABRIEL BASIN WATERMASTER

(As Revised, Amended, and Readopted by Resolution No.12-05-201, adopted December 7, 2005, and Resolution No. 6-07-213, adopted June 6, 2007.)

The definitions set forth in the Judgment in Los Angeles County Superior Court Civil Action No. 924128, entitled, "<u>Upper San Gabriel Valley Municipal Water District v. City Alhambra. et al.</u>," as amended (Judgment herein), as well as additional definitions relating specifically to Section 28 of these Rules and Regulations, are used herein with the same meanings and are listed in Appendix "A" hereof.

1. <u>Offices and Records</u>. Watermaster's records shall be maintained at its offices, currently located at:

725 North Azusa Avenue

Azusa, California 91702

Telephone (626) 815-1300

Fax (626) 815-1303

Said records shall be available for inspection by any Party during regular business hours. Copies of said records may be had upon payment of the costs of the duplication thereof and of any preparation costs pertaining thereto.

- 2. <u>Watermaster Meetings and Holidays.</u> Regular meetings of Watermaster shall be held at 3:00 p.m. on the first Wednesday of each and every month in the conference room of the City of Azusa Light and Water Administration Facility, 729 North Azusa Avenue, Azusa, California 91072, or at such time and place as otherwise determined by Watermaster.
 - (a) <u>Holidays</u>. The following holidays shall be observed by Watermaster:

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- January 1 (New Year's Day);
- The third Monday in January (Martin Luther King's Birthday);
- The third Monday in February (Presidents' Day);
- The last Monday in May (Memorial Day);
- July 4 (Independence Day);
- The first Monday in September (Labor Day);
- The second Monday in October (Columbus Day);
- November 11 (Veterans' Day);
- -The fourth Thursday and the following Friday in November (Thanksgiving);
- December 25 (Christmas Day);
- Each employee's individual birthday, to be taken as a holiday during the month of such birthday as approved by the Executive Officer; and one floating holiday each year, to be designated by the Executive Officer.
 - (1) If January 1, July 4, November 11, or December 25 falls on a Sunday, the Monday following shall be that holiday and if any of said dates fall on a Saturday, the preceding Friday shall be that holiday.
 - (2) When any regular meeting of Watermaster shall fall on a hereinabove designated Watermaster holiday (excepting employees' birthdays and said floating holiday), said regular meeting shall be held on the next succeeding regular business day at the same time and at the same place as the said regularly scheduled meeting, unless otherwise determined by Watermaster.

- (b) <u>Meeting Changes</u>. Any changes in the time or place of said regular meeting shall be in compliance with the Judgment.
- (c) <u>Special Meetings.</u> Special meetings of Watermaster may be called at any time by the Chairman or Vice-Chairman or by any three (3) members of Watermaster, by written notice in compliance with the Judgment. The calling notice shall specify the time and place of the special meeting and the business to be transacted. No other business shall be considered at such meetings.
- (d) Adjournment. Any meeting of Watermaster may be adjourned to a time and place specified in the Order of Adjournment. Less than a quorum of Watermaster, Watermaster's Secretary, or the Executive Officer may so adjourn from time to time. A copy of the Order or Notice of Adjournment shall be conspicuously posted on or near the door of the place where the meeting was held or to be held, within twenty-four (24) hours after the adoption of the Order of Adjournment.
- Quorum of Watermaster, Necessary Votes for Action and Roll Call of Votes. Five (5) members of Watermaster shall constitute a quorum for the transaction of its affairs. Action by the affirmative vote of five (5) members shall constitute action by the Watermaster, except that the affirmative vote of six (6) members shall be required: (a) to enter into any Cyclic Storage Agreement; or (b) to approve the purchase, spreading or injection of Supplemental Water for Ground Water recharge.

Any member of Watermaster may request a roll call vote on any question or motion considered and the ayes and noes thereon shall be recorded in the minutes of the meeting.

4. <u>Agenda of Watermaster Meetings.</u> Any person requesting that a matter be considered by Watermaster for action thereon shall request the same in writing

directed to Watermaster's Executive Officer for inclusion on the Agenda of the next scheduled meeting to be held at least ten (10) days after receipt of said request.

- 5. <u>Conduct of Meetings -- Roberts' Rules of Order.</u> For the conduct of Watermaster meetings, Roberts' Rules of Order shall be followed and, without consent of Watermaster, the priorities of Watermaster business shall be that stated in the Agenda for a particular meeting.
- 6. Organization of Watermaster. At its first meeting each year, Watermaster shall elect a Chairman and Vice Chairman from its membership. It shall also select a Secretary and a Treasurer and may select such assistants as may be appropriate, any of whom may, but need not be, members of Watermaster.
- 7. Minutes. Minutes of all Watermaster meetings shall be kept, which shall reflect all actions taken. Draft copies thereof shall be furnished to any Party who files a request therefor in writing with Watermaster. Said draft copies of minutes shall constitute notice of any Watermaster action therein reported and failure of a Party herein to request copies thereof shall constitute his waiver of notice.
- 8. Designee to Receive Future Notices. Each Party who has not heretofore made a designation of the name and address of the person who shall receive service upon and delivery to Parties of various papers shall file with the Court, with proof of service of a copy thereof upon Watermaster, a written designation of the person to whom and the address at which all future notices, determinations, requests, demands, objections, reports and other papers and processes to be served upon that Party of delivered to the Party are to be so served or delivered.
 - (a) <u>Substitute Designee</u>. A later substitute designation filed and served in the same manner by any Party shall be effective from the date of filing as to any future notices, determinations, requests, demands, objections, reports and other papers and processes to be served upon or delivered to that Party.

- (b) <u>Service upon Designee</u>. Delivery to or service upon any Party by Watermaster, by any other Party, or by the Court, of any item required to be served upon or delivered to a Party under or pursuant to the Judgment herein may be by deposit in the mail, first class, postage prepaid, addressed to the latest Designee of the Party to be served and at the address of said latest designation filed by that Party.
- (c) <u>List of Designees</u>. Watermaster shall maintain a current list of Party Designees to receive notices under the Judgment.

9. <u>Election of Producer Representatives</u>.

- (a) <u>Notice of Nomination Election</u>. Watermaster shall annually give thirty (30) days notice to all Parties that an election shall be held at Watermaster's regularly scheduled meeting in November of each year, for the purpose of nominating Producer representatives to Watermaster.
- (b) <u>Voting.</u> Nominations of six (6) Producer representatives shall be by cumulative voting in person or by proxy, with each Producer entitled to one (1) vote for each one hundred (100) acre-feet, or portion thereof, owned by him, of Base Annual Diversion Right, Prescriptive Pumping Right or Integrated Production Right, as defined in the Judgment. When the names placed in nomination exceed the number of representatives to be elected, votes shall be cast by ballot using official ballot forms provided by Watermaster. Each ballot form must list the Producer and Designee or proxy holder casting the vote, the Producer's voting entitlement, the names of the nominees for whom the votes have been cast, and the number of votes cast for each nominee.
- (c) <u>Conduct of Elections</u>. Prior to the nomination of Producer representatives, the Chairman shall appoint tellers to conduct the election. Such tellers may include any member of Watermaster staff to monitor the canvassing

and counting of votes. The tellers shall distribute the ballots, and, at the conclusion of the balloting, collect the ballots, retire to tabulate the votes, and promptly report the results of the election to the Parties present at the election.

- (1) In the event there is a challenge to the declared election results, the Chairman shall appoint three (3) Producer Parties as election inspectors who shall recount the election ballots and immediately certify the results of such election to Watermaster and others present at the election.
- (2) All ballots shall be considered confidential, and no ballot or information thereon shall be disclosed except to the appointed tellers and election inspectors, without the express permission of the Producer casting the ballot.
- Watermaster, a successor shall be nominated at a special meeting of Watermaster and Producers to be called by Watermaster within ninety (90) days in the case of a Producer representative or by the action of the appropriate District Board of Directors in the case of a Public Representative. Subject to approval and appointment by the Court, such successor Watermaster shall fill the unexpired term of the Watermaster member replaced.
- 11. <u>Watermaster Action Subject to Court Review</u>. Any action, decision, rule or procedure of Watermaster shall be subject to review by the Court on its own motion or on timely petition or motion for an Order to Show Cause by any Party, as follows:
 - (a) <u>Effective Date of Watermaster Action</u>. Any order, decision or action of Watermaster shall be deemed to have occurred on the date that written notice thereof is mailed. Mailing of draft copies of Watermaster minutes which contain such order, decision, action, or contemplated action, to the Parties

requesting the same shall constitute such notice to all Parties, as of the date of such mailing.

- (b) <u>Notice of Motion</u>. Any Party may, by a regularly noticed motion, petition the Court for a review of any Watermaster action or decision. Notice of such motion shall be mailed to Watermaster and to the Designees of all Parties. Unless ordered by the Court, such petition shall not operate to stay the effect of such Watermaster action.
- (c) <u>Time for Motion</u>. Within thirty (30) days of mailing of Notice of Watermaster Determination of Operating Safe Yield together with a statement of each Producer's entitlement thereunder, any affected Party may, by a regularly noticed motion, Petition the Court for an Order to Show Cause for review of said Watermaster findings, determination or entitlement and thereupon the Court shall hear Objections thereto and settle such dispute.

Notice of motion to review any other Watermaster action or decision shall be served and filed within ninety (90) days after such Watermaster action or decision.

- (d) <u>De Novo Nature of Proceedings.</u> Upon filing of such motion for hearing, the Court shall notify the Parties of the date for taking evidence and argument, and shall review *de novo* the question at issue on the date designated. The Watermaster decision or action shall have no evidentiary weight in such proceedings.
- (e) <u>Decision</u>. The decision of the Court in such proceedings shall be an appealable Supplemental Order in this case. When the same is final, it shall be binding upon the Watermaster and the Parties.
- 12. <u>Water Measuring Devices and Meter Test Program.</u> Parties producing in excess of five (5) acre-feet per year shall, pursuant to these uniform rules, install and

maintain in good operating condition, at the cost of each such Party, such necessary water measuring devices or meters as may be appropriate. Any such measuring device is subject to such inspection and testing as Watermaster may, from time to time, deem necessary. Upon testing, the meters shall be sealed by Watermaster and remain so sealed. Watermaster will conduct a formal meter-testing program to help the Parties accurately report their Production. Watermaster intends to test every meter under its jurisdiction at least once every two (2) years.

- (a) Tests of Meters Which Supply Watermaster. At least once every two (2) years, Watermaster shall request certified meter tests of all meters of Responsible Agencies through which Supplemental Water is furnished to Watermaster and of the meters which measure all Cyclic Storage deliveries authorized by Watermaster.
- displacement, velocity impeller, venturi, orifice-type or electromagnetic flow meter with a totalizer. The totalizer on positive displacement, velocity impeller, venturi and orifice-type meters shall be correctable only by changing mechanical gear equipment. Producers using electromagnetic flow meters shall ensure that electronic access to meter data is user-defined and password-protected to prevent unauthorized resetting of the totalizer. Additionally, all wells equipped with electromagnetic flow meters shall also have a run-hour meter installed to provide verification of production in the event the totalizer; is inappropriately or accidentally reset or its accuracy is otherwise disputed. The meter shall be accessible and installed according to good design practices. Watermaster personnel shall assist any Party having any question as to installation requirements.

- (c) <u>Calibrated Test Equipment</u>. Watermaster or its approved meter tester will maintain a complete line of carefully calibrated test equipment. This equipment is the standard with which all water meters must be compared. The tolerance for each meter is plus (+) or minus (-) five percent (5%) of the standard. Watermaster may require any Producer with multiple wells and meters to maintain an aggregate accuracy of plus (+) or minus (-) two percent (2%).
- (d) <u>Repair or Replacement of Inaccurate Meters</u>. Defective or inaccurate meters must be repaired within thirty (30) days of receipt of notice thereof from Watermaster.
- (e) <u>Surface Diversions</u>. Surface Water Diversions shall be measured with a weir and recorder or meter capable of accurately measuring and recording such Diversions.
- which measures the water Production from his well is measuring inaccurately, he shall first notify Watermaster thereof, have the meter retested and, if measuring inaccurately, then have the same repaired at the earliest practical and reasonable time. Upon the completion of such repair, such Producer shall immediately have such meter tested and sealed by Watermaster and it shall remain so sealed. Such testing and sealing will be accomplished by Watermaster upon request therefor by said Producer or said repaired meter may be tested and sealed by any meter tester authorized by Watermaster, as provided in Subsection (g) of this Section 12. Results of such meter tests shall be furnished to Watermaster within ten (10) days of testing, on forms provided by Watermaster.
- (g) <u>Watermaster Approved Meter Testers</u>. Persons, firms or corporations in the business of repairing and/or testing water measuring devices

may be approved by Watermaster to test and seal meters on behalf of Watermaster by submitting their qualifications therefor to Watermaster and obtaining Watermaster's approval to perform meter tests and seal such meters as agents of Watermaster. The name, address and telephone number of all such Watermaster approved meter testers shall be maintained at and be available from the office of Watermaster.

(h) Meter Seal by Watermaster and Notification of Meter Maintenance. At the completion of all meter tests Watermaster's seal shall be placed on the meter, if the meter test demonstrates that the meter is within the accuracy standard of five percent (5%).

Such sealing then requires that Watermaster be notified in writing within seven (7) days if Watermaster's seal has been broken or if any of the following events occur: (a) the meter is to be repaired or recalibrated; (b) there is any other interference affecting the meter or Watermaster's seal; (c) the meter is to be relocated even if Watermaster's seal is still intact; or (d) a new meter is to be installed.

- (i) Estimation of Production Due to Meter Maintenance. When a Producer must estimate Production due to meter maintenance, he shall consult with Watermaster or its engineer for approval of the method of estimation. A copy of the estimate calculations shall be supplied to Watermaster with the corresponding Quarterly Production Report.
- 13. Reports of Producers to Watermaster. Each Producer with an adjudicated right in excess of five (5) acre-feet per year and each Producer with an Overlying Right in any amount shall file with Watermaster a quarterly report of water Produced from the Basin or Relevant Watershed, on forms provided by Watermaster. Producers using electromagnetic flow meters shall report run hours in addition to

totalizer readings. Quarterly Production Reports shall be so filed no later than the last day of the month next succeeding the end of the relevant quarter, i.e. April 30, July 31, October 31 and January 31.

- (a) Adjudicated Right in Excess of Five (5) Acre-Feet Not to be Reduced to Minimal Producer by Transfer. Any portion of: (1) the Base Annual Diversion Right of a Diverter; (2) the Prescriptive Pumping Right of a Pumper; or (3) the Diversion Component and Prescriptive Pumping Component of an Integrated Producer, adjudicated in any amount in excess of five (5) acre-feet per year [at the time that Judgment herein was entered, January 4, 1973], that is or may be reduced to five (5) acre-feet or less by assignment or transfer of rights, as permitted by Section 55 of the Judgment, shall not enjoy the status of a Minimal Producer as defined in Section 10 (o) of the Judgment.
- (b) Notice to Watermaster of Transfers of Water Rights. Within fifteen (15) days thereof all Parties shall notify Watermaster of any transfer, assignment, license or lease of any water right, or portion thereof, not shown in the Judgment or previously filed with Watermaster and such transferee must be or become a Party to the action (as provided in Section 57 of the Judgment). All Parties are required to notify Watermaster of any subsequent assignment, transfer, license or lease of water rights granted or acquired by them and they shall file a duly acknowledged copy of the document(s) therefor with Watermaster, within fifteen (15) days after execution and acknowledgement of such document(s).

For such assignment, transfer, license or lease of water rights to be effective for, or be deemed by Watermaster to apply to, Production in a particular Fiscal Year (July 1 - June 30), the document(s) therefor shall be executed and acknowledged prior to the end of said Fiscal Year (June 30) and

copies thereof showing such acknowledgement must be received by Watermaster prior to July 15, following the end of said particular Fiscal Year. The transferee must be, or petition to become, a Party to the action within ninety (90) days following such assignment, transfer, license or lease of water rights.

When the term of a temporary assignment, transfer, license or lease of water rights extends beyond the end of the current Fiscal Year, it shall be the obligation of the transferee thereof to annually, during the month of July of each Fiscal Year during said term, notify Watermaster of said transferee's intention to exercise said water right during the then current applicable Fiscal Year.

- Parties are advised that when a water right owner conveys the property where a water right was developed, the said water right shall not be conveyed with such property unless and until the appropriate notice procedures established by Watermaster have been complied with. When it is intended to transfer or acquire adjudicated water rights in the Basin or Relevant Watershed, the Parties thereto are advised to use the appropriate forms contained in exhibits to these Rules and Regulations and to notify Watermaster of such transfers by furnishing a copy of such transfer documents(s) within fifteen (15) days of execution and acknowledgement thereof.
- (d) <u>Conveyance of Water Right without Conveyance of Property.</u>

 Parties are also advised that the owner of an adjudicated water right herein (except an Overlying Right) may transfer the same (temporarily or permanently) without conveyance of the property where the water right was developed.
- (e) <u>Transfer of Overlying Right.</u> The transfer and use of Overlying Rights shall be limited (as provided in Section 21 of the Judgment) as

exercisable only on specifically defined Overlying Lands and they cannot be separately conveyed or transferred apart therefrom.

- (f) <u>Intervention Stipulation Required</u>. No conveyance of water rights to a person who is not a Party to the subject action shall be recognized by Watermaster unless the transferee thereof files with Watermaster a Stipulation in Intervention to the subject action (Exhibit "E") agreeing to be bound by the Judgment herein, and until the Court approves said Stipulation and Intervention.
- (g) Notice Required. Any transfer of water rights shall be effective only when the requirements of this Section 13 are met and when the Parties file with Watermaster, within fifteen (15) days of such transfer, a copy of the transfer document(s) which:
 - (1) Identifies both the transferee(s) and the transferor(s);
 - (2) Accurately recites the total quantity (in acre-feet) of water rights transferred;
 - (3) Is executed by both the transferee(s) and the transferor(s);
 - (4) Is acknowledged by both transferee(s) and transferor(s) in a form sufficient for recordation;
 - (5) Lists the Designee(s) of both the transferor(s) and transferee(s) to receive future service and notice of papers and process; and
 - (6) Is accompanied by a map of the service area where the water was used by transferor(s) (assignors) and a map of the service area where the water is intended to be used by the transferee(s) (assignees), if requested by Watermaster.
- (h) Approved Forms of Transfer Documents and Other Forms.
 Approved forms of such transfer documents and other approved Watermaster

forms are attached hereto, marked and identified as follows:

Exhibit "A"	Permanent Transfer of Water RightsPrescriptive
	Pumping Right
Exhibit "B"	Permanent Transfer of Water RightsBase
	Annual Diversion Right
Exhibit "C"	Permanent Transfer of Water RightsIntegrated
	Production Right
Exhibit "D"	Temporary Assignment or Lease of Water Right
Exhibit "E"	Stipulation Re Intervention After Judgment
Exhibit "F"	Designee to Receive Future Notices for and on
	Behalf of Defendant(s)
Exhibit "G"	Notice of Transfer of Overlying Rights With
	Property to Which They are Appurtenant.
Exhibit "H"	Application To Drill Water Well
Exhibit "I"	Application To Modify Existing Water Well
Exhibit "J"	Application To Destroy Water Well
Exhibit "K"	Application For Water Treatment Facility
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- (i) <u>Presumption as to Unexercised Rights.</u> Unless otherwise noted on the above mentioned transfer documents(s), it will be presumed by Watermaster that the permanent transfer of water rights will include all unexercised rights thereunder, including authorized carry-over of unused rights.
- Operating Safe Yield. Watermaster shall annually determine the Operating Safe Yield applicable to the succeeding Fiscal Year and estimate the same for the next succeeding four (4) Fiscal Years. Said determination shall be made at the close of the hearing thereon, which shall be commenced at Watermaster's regular meeting in May of each year. Watermaster shall notify each Pumper and Integrated Producer of his

share thereof, stated in acre-feet per Fiscal Year. Thereafter, no Party may produce in any Fiscal Year any Consumptive Use Portion of any Overlying Right, or an amount in excess of the sum of his Diversion Right, if any, plus his Pumper's Share of such Operating Safe Yield, or his Integrated Production Right, or the terms of any Cyclic Storage Agreement, without being subject to Assessment for the purpose of purchasing Replacement Water. The rate of such Assessment shall be established at the same meeting at which the Operating Safe Yield is established, and it may be estimated for the years for which Operating Safe Yield is estimated. In establishing the Operating Safe Yield, the Watermaster shall follow all physical, economic, and other relevant parameters provided in the Judgment herein. Said determination shall be made in accordance with the following:

- (a) <u>Preliminary Determination</u>. At Watermaster's regular meeting in April of each year, Watermaster shall make a Preliminary Determination of the Operating Safe Yield of the Basin for each of the succeeding five (5) Fiscal Years. Said determination shall be made in the form of a report containing a summary statement of the considerations, calculations and factors utilized by Watermaster in arriving at the said Operating Safe Yield.
- (b) Notice of Hearing. A copy of said Preliminary Determination Report shall be mailed to all Parties at least ten (10) days prior to a hearing thereon to be commenced at Watermaster's regular meeting in May of each year, at which time objections or suggested corrections or modifications of said determination shall be considered.
- (c) <u>Watermaster Final Determination and Review Thereof.</u> Within thirty (30) days after completion of said hearing, Watermaster shall mail to each Pumper, Diverter, Overlying User and Integrated Producer a Final Report and Determination of said Operating Safe Yield for each such Fiscal Year, together

with a statement of the Producer's entitlement in each such Fiscal Year stated in acre-feet. Any affected Party, within thirty (30) days of mailing of notice of said Watermaster determination, may petition the Court for an Order to Show Cause for Review of said determination in accordance with Section 11 hereof.

15. Carry-over Rights.

- (a) <u>Pumping</u>. Any Pumper's Share of Operating Safe Yield, and the Production right of any Integrated Producer which is not Produced in a given year may be carried over and accumulated for one (1) year.
- (b) <u>Diversions</u>. Diverters shall be entitled to Divert for direct use up to two hundred percent (200%) of their Base Annual Diversion Right in any Fiscal Year, provided that the aggregate quantities of water Diverted in any consecutive ten (10) Fiscal Year period shall not exceed ten (10) times such Diverter's Base Annual Diversion Right.
- (c) <u>Overlying Rights</u>. By definition, there is no carry-over of Overlying Rights.
- (d) <u>Presumption as to Carry-over Rights</u>. The first water Produced in the succeeding Fiscal Year shall be deemed Produced pursuant to such Producer's Carry-over Rights.
- 16. <u>Special Hearings.</u> Watermaster shall conduct such special hearings as deemed appropriate upon thirty (30) days notice to the Parties hereto.
- 17. <u>Policy Decisions</u>. No policy decision shall be made by Watermaster until its next regular meeting after the question involved has been raised for discussion at a Watermaster meeting and noted in the draft of minutes thereof.
- 18. <u>Assessments.</u> Watermaster may levy and collect Assessments from the Producer Parties based upon Production during the preceding Fiscal Year. Said Assessments may be for one or more of the following purposes:

- (a) <u>Administration Costs</u>. At its regular May meeting Watermaster shall adopt a proposed budget for the succeeding Fiscal Year and within fifteen (15) days shall mail a copy thereof to each Party, together with a statement of the level of Administration Assessment levied by Watermaster and which will be collected for purposes of raising funds for said budget. Said Assessments shall be uniformly applicable to each acre-foot of Production.
- (b) Replacement Water Costs. Replacement Water Assessments shall be collected from each Producer on account of such Party's Production in excess of its Diversion Rights, Pumper's Share or Integrated Production Right, and on account of the consumptive use portion of Overlying Rights, computed at the applicable rates established by Watermaster, consistent with Watermaster's Operating Criteria (Exhibit "H" to the Judgment).
- (c) <u>Make-up Obligation</u>. An Assessment shall be levied and collected equally on account of each acre-foot of Production, which does not bear a Replacement Water Assessment hereunder, to pay all necessary costs of administration and satisfaction of the Make-up Obligation. Such Assessment shall not be applicable to water Production of an Overlying Right.
- (d) <u>In-Lieu Water Cost.</u> An Assessment may be levied against all Pumping to pay reimbursement for In-Lieu Water Cost except that such Assessments shall not be applicable to the non-consumptive use portion of Overlying Rights.
- (e) <u>Waivers Possible for Water Quality Improvement or Protection</u>. In accordance with Section 45 (e) of the Judgment, a Producer of water from the Basin for the purpose of testing, protecting, or improving water quality, may apply in writing by verified petition or application (hereinafter "Application") to Watermaster, for approval of such water Production free of all or any part of

Watermaster Assessments thereon, and for waiver of one or more of the provisions of Sections 25, 26, and 57 of said Judgment, where appropriate, upon terms and conditions to be established by Watermaster after a noticed hearing on such Application.

A waiver of Assessment shall not be granted for the purpose of removal of contamination or improvement of the quality of Basin water which has, or could have, resulted from the activity of the Applicant for such waiver.

In the event cleanup or Treatment Facilities are installed in the Basin by or for the benefit of a Producer, and the Basin water receiving treatment from said Treatment Facilities is subsequently delivered by or used for beneficial purposes of such Producer, the Production of such water shall not be entitled to waiver or modification of Watermaster Assessments thereon.

Notwithstanding the above, if Basin water is treated and immediately percolated or reintroduced to the Basin by way of spreading, injection, or otherwise, for purposes of this Section 18 (e), its Production may, upon Watermaster's approval of an Application to waive or modify its Assessments on the same, be entitled thereto. In any event, such water shall only be percolated or reintroduced to the Basin with the consent of Watermaster and said water shall be of a quality acceptable to Watermaster.

Although all Production from the Basin must be reported to Watermaster on a timely basis in accordance with these Rules and Regulations, Production which is granted a waiver of Assessment hereunder may, by reason of certain circumstances as specifically determined by Watermaster, be deemed an unused right and entitled to carry-over, in accordance with Section 49 of the Judgment.

(f) <u>Application for Waiver of Assessment</u>. An Application for Waiver of Assessment, as above set forth, shall contain all relevant information

relied upon by Applicant which he believes justifies the granting of said Application. All such Applications shall explain the special needs and circumstances for such Production and specify the approximate amounts to be Produced, the time frame of such Production, the specific location(s) of the points(s) of extraction(s), and the place of intended disposal of such water, as well as any supplemental or additional information requested by Watermaster. All such extractions shall be metered and reported quarterly to Watermaster, along with all other Basin Production, in accordance with these Rules and Regulations.

Should an Application contain incomplete information or should Watermaster desire additional, other, or further information in relation thereto, the same shall also be furnished and verified by Applicant.

(g) <u>Hearing and Effective Date</u>. Within thirty (30) days of the filing of any such Watermaster accepted Application, Watermaster shall give at least thirty (30) days notice to the Designees of all Parties that it will hold a hearing on said Application. Watermaster may, after the conclusion of said hearing, under then existing conditions, waive all or any part of its Assessments on such Production, such waiver shall not be effective prior to the date of the filing of said accepted Application, and may also waive the provisions of Sections 25, 26, and 57 of the Judgment herein.

The effective date for the granting of an Application to waive or modify Watermaster Assessments shall be no later than ten (10) days after approval thereof by Watermaster and it shall continue for the period of time specified therein, unless sooner terminated or extended by Watermaster. Nothing herein is intended to allow an increase in any Producer's annual entitlement under the Judgment.

- 19. <u>Levy</u>, <u>Notice and Adjustment of Assessments</u>. At its regular May meeting Watermaster shall also fix the rate(s) of or levy applicable Administration Assessments, Replacement Water Assessments, Make-up Obligation Assessments, and In-Lieu Water Cost Assessments, if any. Watermaster shall give written notice of all applicable Assessments to each Party on or before August 15 of each year.
 - (a) <u>Payment</u>. All Watermaster Assessments shall be due and payable on or before September 20, following such Assessment levy or Assessment rate fixing, subject to the rights reserved in Section 37 of the Judgment, and such Assessment shall be paid or become delinquent after September 20.
 - (b) <u>Delinquency</u>. Any Assessment payment which becomes delinquent shall bear interest at the annual prime interest rate in effect on the first business day of August of each year, plus one percent (1 %). Said prime interest rates shall be that fixed by the Bank of America NT&SA for its preferred borrowing on said date. Said prime interest rate plus one percent (1%) shall be applicable to any said delinquent Assessment payment from the due date thereof until paid, provided, however, in no event shall any said delinquent Assessment bear interest at a rate of less than ten percent (10%) per annum. Such delinquent Assessment and said interest thereon may be collected in a Show Cause proceeding in the subject action or in any other legal proceeding instituted by Watermaster, and in such proceeding the Court may allow Watermaster its reasonable costs of collection, including attorney's fees.
 - (c) <u>Adjustments</u>. By reason of Watermaster's inability to control the direct costs and other charges incurred for Supplemental Water obtained from Responsible Agencies, it may be necessary from time to time for Watermaster to adjust the foregoing Assessments. Such Assessments may only be adjusted after

giving at least 15 days Notice to all Parties of the meeting at which such adjustments will be considered by Watermaster.

20. <u>Responsibility for Watermaster Assessments</u>. Parties Producing water from the Relevant Watershed shall be responsible for Watermaster Assessments levied upon all Production.

21. Over and/or Under Reporting.

(a) Over Reporting. Watermaster shall make refunds, in whole or in part, of Assessments theretofore paid, to any Producer who has erroneously overstated his Production in any sworn statement for a quarterly period required hereunder and who has overpaid any Assessment for that quarter, but only upon compliance by the Producer with the procedure hereinafter set forth and within the time hereinafter provided.

Any such Producer, within one (1) year of the last day for filing of the said sworn statement for the quarterly period in question, may file a verified application with Watermaster requesting a refund of that portion of any Assessment claimed to have been paid by reason of that Producer's erroneous overstatement of Production. If incomplete information is contained in said application, or if Watermaster desires other, further, or additional information than that set forth in said application, the same shall also be furnished by a verified statement mailed to Watermaster on behalf of Applicant within thirty (30) days of the mailing of the written notice or request therefor from Watermaster to the Producer's Designee, at his address as shown by Watermaster records, or the application shall be deemed abandoned. Such request by Watermaster shall not cause any application otherwise timely filed to be considered as not filed within said one (1) year period. The Watermaster may pay any refund claimed without a hearing thereon, but no application shall be

denied, in whole or in part, without a hearing being accorded to the Applicant, in which said hearing the Applicant shall have the burden of proof. Any determination by Watermaster on any matter in connection with said application shall be final and conclusive upon the said Producer.

Any refund authorized to be paid under the provisions of this Section may be paid only out of moneys realized from the appropriate Watermaster Assessment levied or thereafter raised. Under election of the Producer, any refund determined by Watermaster to be owing may be credited to the Producer against any subsequent Assessments which might become due and owing from him to Watermaster. No refunds shall be made except as authorized by this section and this section may not apply to over reporting unless there has been compliance with the provisions of Section 12 hereof.

believe that the Production of water from any water Producing facility is in excess of that disclosed by the sworn statements covering such water Producing facility, Watermaster may cause an investigation and report to be made concerning the same. Watermaster may fix the amount of water Production from such facility at an amount not to exceed the maximum Production capacity thereof, provided, however, where a Watermaster tested water measuring device is permanently attached to such facility, the record of Production as so disclosed by such measuring device shall be presumed to be accurate and the burden of proof shall be upon Watermaster to establish the contrary.

A determination by Watermaster that a Producer has under reported Production shall require Watermaster to give written notice thereof to such Producer by mailing such notice to his Designee, at the address shown by Watermaster records. A determination of under reporting made by Watermaster

shall be conclusive on any Producer who has Produced water from the facility in question and the Watermaster Assessments based thereon, together with interest as set forth in Section 19 (b) hereof, shall be payable forthwith, unless such Producer shall file with Watermaster within ten (10) days after the mailing of such notice, a written protest setting forth the ground or grounds for protesting the amount of Production so fixed or the Assessments and interest thereon.

Upon the filing of such protest, Watermaster shall hold a hearing at which time the total amount of water Production and the Assessments and interest thereon shall be determined, which action shall be conclusive if based upon substantial evidence. A notice of such hearing shall be mailed to protestant at least ten (10) days before the date fixed for the hearing. Notice of the determination by the Watermaster at the close of such hearing shall be mailed to the protestant. The Producer shall have twenty (20) days from the date of mailing of such notice to pay the Assessments fixed by Watermaster and interest thereon, as fixed herein, before the same becomes delinquent.

- Watermaster may bring suit in the Court having jurisdiction against any Producer of water from the Basin or Relevant Watershed for the collection of any delinquent Assessment and interest thereon. The Court having jurisdiction of the suit may, in addition to any delinquent Assessment, award interest and reasonable costs, including attorney's fees.
- 22. <u>Information Concerning Offers to Purchase, Sell or Lease Water Rights.</u>
 Watermaster shall maintain a record of any offer to purchase, sell or lease water rights reported to Watermaster, for the purpose of encouraging the orderly transfer of such rights by acting as a clearing house for such information. Any person desiring to purchase, sell, or lease such rights may examine such Watermaster records.

RESERVATION OF STREET

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- Watermaster Control of Spreading and Ground Water Storage. Except 23. for the exercise of non-consumptive uses, no Party shall spread water within the Basin or Relevant Watershed for subsequent recovery or Watermaster credit without prior Watermaster written permission to do so because Watermaster has sole custody and control of all Ground Water storage rights in the Basin.
 - Replacement Water and Cyclic Storage Deliveries. Deliveries of (a) water for replenishment or cyclic storage shall be made either pursuant to Watermaster's duly authorized order for Replacement Water or in accordance with terms and conditions of a valid Cyclic Storage Agreement with Watermaster. All such water deliveries shall be subject to the conditions and priorities set forth in Section 26 herein.
 - (b) Supplemental Water Quality. In an effort to prevent degradation of Basin groundwater quality, and in accordance with Section 40 of the Judgment, Watermaster may establish criteria for the quality of Supplemental Water delivered for Basin replenishment or Cyclic Storage. Such criteria shall consider applicable Basin Plan objectives as set forth by the California Regional Water Quality Control Board - Los Angeles Region, but shall also balance the need to maintain adequate water supplies with the need to preserve Basin water quality.

Watermaster may review and update its Criteria for Supplemental Water Quality as needed to address changes in regulations or hydrologic conditions. Watermaster shall provide the Responsible Agencies with at least 30 days notice of its intent to adopt or modify such criteria, along with the proposed draft or changes, and shall consider comments from those agencies prior to adoption. Watermaster shall also provide the Responsible Agencies with the final, adopted Criteria for Supplemental Water Quality.

- 24. <u>Watermaster Annual Report.</u> Watermaster shall annually file with the Court and mail to the Parties a report of all Watermaster activities during the preceding Fiscal Year, including an audited statement of all accounts and financial activities of Watermaster, summaries of Diversions and Pumping, and all other pertinent information. To the extent practical, said report shall be mailed to all Parties and filed with the Court on or before November 1 of each Year.
- 25. <u>Watermaster Stipulation Re Intervention After Judgment.</u> Attached hereto and marked "Exhibit E" is a form of Stipulation for Intervention After Judgment which Watermaster will execute, file with the Court if accompanied by the necessary filing fee, obtain a Court hearing date thereon, give Notice thereof and attempt to obtain an approving Court Order thereon.
 - 26. Uniform Rules and Conditions of Cyclic Storage Agreements.
 - (a) Application for Cyclic Storage Agreements. Any person or entity, private or public, desiring to spread and store Supplemental Water within the Basin for subsequent recovery and use or for Watermaster credit shall make application to Watermaster for a Cyclic Storage Agreement pursuant to these Uniform Rules and Conditions. Watermaster shall have first call on Supplemental Water for Replacement Water, Make-up Water and for the "Alhambra Exchange" before such water is made available for Cyclic Storage Agreements.
 - (b) <u>Purpose of Cyclic Storage Agreements</u>. All Cyclic Storage Agreements shall be for the utilization of Ground Water storage capacity of the Basin and for cyclic or regulatory storage of Supplemental Water.
 - (c) <u>Available Storage Capacity.</u> In considering the available Ground Water storage capacity of the Basin for such Agreements, Watermaster shall

take into account the operation of the Basin under the Physical Solution provisions of the Judgment.

- (d) <u>Provisions of Cyclic Storage Agreements</u>. Any such Agreement shall include provisions for:
 - (1) Watermaster control of all spreading (or injection) and extraction scheduling and procedures for such stored waters:
 - a) The time, place, and amount of said spreading shall be approved in advance by Watermaster provided, however, that when the water level of the Baldwin Park Key Well is at or above elevation two-hundred fifty (250) feet, spreading activities shall be restricted to the easterly portion of the Basin at water spreading facilities designated in advance by Watermaster, unless otherwise approved by the Court;
 - (2) Calculations by Watermaster of any special costs, damages or burdens resulting from such operation;
 - (3) Priorities for Cyclic Storage Agreements in the following order:
 - a) Responsible Agencies on the basis of their relative requirements for Replacement Water within their respective corporate boundaries,
 - b) Other Parties on the basis of priority of application to Watermaster for such Agreements, and
 - c) Non-parties;
 - (4) Determinations by Watermaster of, and accounting for, all losses in stored water, assuming that such stored water floats on top of the Ground Water supplies, and accounting for all losses of water which

otherwise would have replenished the Basin. Such losses of stored water shall be assigned by Watermaster as follows:

- a) First losses by non-parties in the reverse priority of the earliest original dates of their respective Cyclic Storage Agreements, to the whole of such non-parties' stored water,
- b) The next losses by Parties who are not Responsible Agencies in reverse priority of the earliest original dates of their respective Cyclic Storage Agreements, to the whole of their stored water, and
- c) The last losses by Responsible Agencies to be shared on the basis of water actually in storage in the Basin at the time of the loss of such stored water;
- (5) The priorities for spreading of Supplemental Water are hereby established as follows, in the order of their priority:

<u>First:</u> Supplemental .Water ordered by Watermaster from Responsible Agencies for direct delivery to the Basin as Replacement Water,

Second: Supplemental Water for delivery to the Basin for storage under Cyclic Storage Agreements between Watermaster and Responsible Agencies. In the event that more than one Responsible Agency wishes to deliver water to Cyclic Storage simultaneously and there is inadequate spreading capacity available, deliveries by each Responsible Agency so desiring to deliver Supplemental Water shall be scheduled so that the total quantity of water in Cyclic Storage of those Agencies can be

increased proportionately in percent of their maximum allowed Cyclic Storage,

Third: Supplemental Water for delivery to Individual Cyclic Storage accounts of Parties to the Judgment. In the event that more than one Party wishes to deliver water to such Cyclic Storage accounts simultaneously and there is inadequate spreading capacity available, deliveries for each such Party shall be scheduled so that the total quantity of water in such Parties' Individual Cyclic Storage accounts can be increased proportionately in percent of their maximum allowed Cyclic Storage, and

<u>Fourth</u>: Non-Parties as established by Watermaster at the time; and

- action of all special costs, damages or burdens incurred (without any charge, rent, assessment or expense as to Parties to said action by reason of the adjudicated proprietary character of said storage rights, nor credit for offset for benefits resulting from such storage); provided, no Party shall have any direct interest in or control over such contracts or the operation thereof by reason of the adjudicated right of such Party. Watermaster has sole custody and control of all Ground Water storage rights in the Basin pursuant to the Physical Solution in the Judgment and all said Agreements are subject to review and approval of the Court.
 - (e) <u>Terms of Cyclic Storage Agreements and Extensions.</u> The term of such Agreements shall not exceed five (5) years but may be extended for additional terms, not to exceed

five (5) years each, provided Watermaster shall report its intention to consider an extension of any such Agreement in minutes of its meeting held prior to its meeting when any such extension request shall be acted upon.

- (f) <u>Maximum Storage</u>. Such Agreements shall fix the maximum amount of Supplemental Water to be stored in the Basin at any point in time by a particular storing entity.
- entity of such Agreement shall save and hold harmless Watermaster, its officers, agents and employees from any and all costs, damages or liability resulting from said Agreement and shall provide Watermaster with the defense or costs of the defense of any action brought against Watermaster, its officers, agents or employees arising or alleged to arise by reason of such Agreement for storage of Supplemental Water in the Basin.
- (h) Reports of Stored Water. The storing entity, if not a Producer, shall quarterly report to Watermaster the amount of Supplemental Water which it spreads and withdraws each quarter under such Agreement. Such reports shall be due on the last day of the month next succeeding the end of the relevant quarter, i.e. April 30, July 31, October 31, and January 31. Such reports shall be cumulative and shall indicate the credit balance of the relevant quarter. If the storing entity is a Producer storing water pursuant to an Individual Producer Cyclic Storage Account whereby Watermaster has purchased the stored water on the Producer's behalf and credited the Producer's account, then Watermaster

shall provide the Producer with a quarterly accounting of storage credit in the regular quarterly production report form. The Producer shall be responsible for verifying the credit and notifying Watermaster of any dispute or discrepancy.

- (i) <u>Court Approval of Cyclic Storage Agreements.</u>
 Upon its approval of a Cyclic Storage Agreement, Watermaster shall Petition the Court for approval thereof and said Agreement shall become effective only upon such Court approval.
- 27. Responsible Agency from Whom Watermaster Shall Purchase Replacement Water.
 - (a) Responsible Agencies. There are three Responsible Agencies within or partially within the Basin. Two of such Agencies, Upper San Gabriel Valley Municipal Water District (Upper District) and Three Valleys Municipal Water District (Three Valleys District) are member agencies of The Metropolitan Water District of Southern California (Metropolitan) and supply Watermaster with Replacement Water purchased from Metropolitan. The third Responsible Agency is San Gabriel Valley Municipal Water District (San Gabriel District) which has contracted with the State of California and has constructed facilities to deliver water from the State Water Project and, thus, can directly supply Watermaster with Replacement Water.
 - (b) <u>Water Used Within the Basin</u>. For water used within the Basin, the Responsible Agency within whose boundaries is located the place of use of water Produced from the Basin will determine the Responsible Agency from whom Watermaster shall purchase Replacement Water.
 - (c) <u>Water Exported from the Basin.</u> Except for water Produced from the Basin and used within the City of Sierra Madre (for which San Gabriel

District shall be the Responsible Agency), the place of such Production of water exported from the Basin shall determine the Responsible Agency from whom Watermaster shall purchase Replacement Water.

- (d) <u>Computations of the Amount of Replacement Water to be</u>

 <u>Purchased from Responsible Agencies.</u> In computing the amount of Replacement Water to be provided by a Responsible Agency, Watermaster shall:
 - (1) Determine the Replacement Water requirement of each Party to the Judgment and apportion such Replacement Water requirement as required in (b) and (c) above;
 - (2) Calculate the total Replacement Water requirement for each Responsible Agency as determined in (1) above;
 - (3) Tabulate Interagency Transfers of water rights as described in (e) (1) below;
 - (4) Calculate the Net Interagency Transfer adjustment as described in (e) (2) below;
 - (5) Determine the adjusted Replacement Water requirements, calculated for each Responsible Agency as required in (e) below; and
 - (6) Determine the effect of deferred Replacement Water requirements as calculated in (h) below.
 - Requirement. Replacement Water requirements as heretofore calculated shall be modified by a "Net Interagency Transfer Adjustment." "Interagency Transfer" shall mean the aggregate amount of Production Right resulting from the temporary transfer of all or a portion of a Pumper's Share of Operating Safe Yield, or a Base Annual Diversion Right, or the Diversion Component or

Pumping Component of an Integrated Production Right for use within the boundaries of a Responsible Agency other than the Responsible Agency within which such water rights were developed and adjudicated.

The annual Replacement Water requirement resulting from Net Interagency Transfers for each Responsible Agency shall be calculated as follows:

- (1) Net Interagency Transfers shall be calculated for each Responsible Agency as the difference between such rights transferred for use outside or partially outside that Responsible Agency and such rights transferred for use within or partially within that Responsible Agency.
- (2) Tabulate the total Interagency Transfers of water rights, calculated for each of the Responsible Agencies in (1) above. The sum of said total Interagency Transfers for each of the three Responsible Agencies is that Responsible Agency's Net Interagency Transfer Adjustment. The total of such adjustments for all Responsible Agencies shall equal zero. The Responsible Agency(s) having a positive amount shall have this Net Interagency Transfer Adjustment added to the Replacement Water requirement computed for it in (d) (2) above. The Responsible Agency(s) having a negative amount shall have this Net Interagency Transfer Adjustment subtracted from the Replacement Water requirement calculated for it in (d) (2) above.

(f) Special Provisions.

(1) The Replacement Water requirement calculated for each of the Responsible Agencies in (e) (2) above cannot exceed the total quantity of Replacement Water obligation calculated for all Responsible Agencies, and/or;

- (2) If the Replacement Water requirement calculated in (e)(2) above results in a negative value, that negative value shall be adjusted to zero, as described in (h) below.
- (g) <u>Special Provisions Re Alhambra Exchange</u>. An adjustment shall be made to San Gabriel District's calculated Replacement Water requirement, if necessary, to allow Upper District to deliver an amount of Replacement Water to the City of Alhambra equal to the quantity delivered through connection USG-5 for the previous year, the year in which the Replacement Water requirement was incurred.
- (h) Adjustments to Calculated Replacement Water Requirements.

 Adjustments to Replacement Water requirements resulting from the calculations in (f) (2) or (g) above shall be apportioned as follows:
 - (1) As between Upper District and Three Valleys District, the district with a negative value shall have added to it an amount sufficient to equal zero, that amount shall be subtracted from the Replacement Water requirement of the other Responsible Agency, but it shall not be reduced to less than zero. If a negative balance still exists, then it shall be subtracted from San Gabriel District.
 - (2) If San Gabriel District's Replacement Water requirement is less than zero, it shall be adjusted to zero by deducting equal amounts of San Gabriel District's adjustment from both Upper District and Three Valleys District.
 - (3) All adjustments shall be accumulated in a Deferred Replacement Water Requirement Account for each of the Responsible Agencies. In future years when deliveries of Replacement Water may be made by a Responsible Agency, up to the amount, or any portion of the

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amount, in the Deferred Replacement Water Requirement Account, such deliveries will be equally subtracted from the Replacement Water requirement of the Responsible Agency(s) from which it was derived in (1) and/or (2) above for that year so long as such deliveries shall not cause total deliveries of all Responsible Agencies to exceed the amounts provided for in paragraph (f) (1) and/or paragraph (f) (2) above. At the time that deliveries are made by a Responsible Agency from its Deferred Replacement Water Requirement Account, Watermaster shall pay to that Responsible Agency its price prevailing at that time for Replacement Water.

- (i) Advanced Delivery Account. Whenever the total quantity calculated in (e) (1) above, is less than that delivered to the City of Alhambra through USG-5 for the previous year, an accounting of the difference shall be maintained in an "Advanced Delivery Account" and such difference, or as much as possible thereof, shall be subtracted from the Replacement Water Requirement of Upper District in the next year when an obligation to deliver Replacement Water exists for Upper District.
- 28. Ground Water Quality Management. The Watermaster, Upper District, San Gabriel District, and San Gabriel Valley Water Association, through a Joint Resolution dated February-March 1989, affirmed their commitment to participate in a coordinated federal, state and local response to contamination of Ground Water supplies of the Basin for both the purpose of preventing additional contamination and the purpose of cleaning up and limiting the spread of existing contamination. The entities adopting that Joint Resolution designated and accepted Watermaster as the entity to coordinate local involvement in the efforts to preserve and restore the quality of Ground Water within the Basin. Watermaster sought and received additional powers from the

Court to regulate extractions of water from the Basin for water quality control purposes, and this Section 28 is to implement the same. These efforts shall be that any New or Increased Extraction to meet water needs from the Basin shall include planned treatment in existing areas of High Level Degradation or Contamination. An important part of exercising these additional powers and coordinating federal, state and local responses to contamination of the Basin's water supplies is the collection and compilation of essential data from Producers and the expeditious distribution of such data to the proper state and federal regulatory agencies involved in water quality matters in the Basin.

- (a) <u>Watermaster Approvals</u>. Each Producer shall, after the effective date of this amendment to these Rules and Regulations (June 28, 1991), apply to Watermaster, on forms provided by Watermaster, for a permit to do any of the following:
 - Construct any well;
 - Deepen any existing well;
 - Modify the perforations of the casing of any existing well;
 - Notwithstanding natural fluctuations in Basin water levels, physically increase or decrease the Effective Extraction Capacity of any existing well, including that which may occur due to installation or modification of pipelines, booster pumps or other distribution system components, as of said effective date of these Rules and Regulations;
 - Abandon any existing well; or
 - Construct, relocate or abandon Ground Water Treatment Facilities.

Such application will be acted upon by Watermaster no later than at its first regular meeting following sixty (60) days after receipt of the complete application. If an emergency exists, Watermaster shall expedite its actions to the maximum extent practicable.

- (b) <u>Watermaster Directed Change in Water Production.</u>
- (1) Based on available data, Watermaster's Five-Year Plan, and/or Ground Water modeling, Watermaster will, for water quality protection

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purposes, direct any Producer to increase, decrease or cease Production from existing wells, initiate new well Production or deliver water to or accept water from another water system or direct a Producer to obtain water from another source in-lieu of Pumping from its own wells, or take other appropriate actions in compliance with an approved Watermaster plan by giving such Producer advanced written notice thereof, specifying a time certain for compliance.

- (2) The increase in cost to a Producer resulting from a Watermaster directed change in water Production shall not be borne by the Producer, but will be reimbursed to the Producer by Watermaster through In-Lieu Water Assessments levied by Watermaster, unless such funding is made available from other sources such as federal, state or local governmental entities or by those found to be responsible for the contamination in the Basin which caused Watermaster to direct the change in Production by the Producer.
- Producer Data, Initial Submittal. After June 28, 1991, Producers (c) shall submit, within sixty (60) days of Watermaster's request, initial data in a form acceptable to Watermaster, to update and ensure the accuracy of the existing Basin database. The data shall include:
 - (1) Identification and location of all Active, Inactive or Abandoned Wells;
 - (2)Water quality data concerning organic compounds, nitrates and any other water quality parameters as specified by Watermaster, including all data from other sampling Producers may conduct in addition to governmental requirements;
 - (3) Available construction details of each well owned or operated by Producer, as well as all logs (driller's, electric, etc.);
 - (4) Depths or zones from which water is extracted from each

well, if available; and

- (5) A current map of the main water transmission system of Producer's distribution system showing the location and sizes of transmission mains and storage reservoirs, all interconnections with other systems and their sizes and capacities, and any other data pertinent to the transmission (but not distribution to customers) of water through the Producer's system.
- (d) Quarterly Reports. After the initial submittal of data per subparagraph (c) above, the following data shall be submitted by all Producers to Watermaster quarterly, on or before the last day of January, April, July and October:
 - Chemical water quality data collected during the quarter and provided to any state, federal or local public agency;
 - (2) Data described under Section 28 (c) (3), (4) and (5) hereof which supplement, amend or change the data previously submitted by a Producer; and
 - (3) All data from other sampling which Producers may conduct in addition to governmental requirements.
- Producer in the Basin to meet water supply needs shall have prior Watermaster approval, shall not contribute to contaminant migration, and shall include planned treatment in existing areas of High-level Degradation and Contamination. In giving such approval, Watermaster shall consider the cumulative effects of multiple actions by all Producers in the area of concern by using available information, the Five-Year Plan, and Ground Water modeling. If Watermaster determines that a proposed new well is a Replacement Well and

is not a New or Increased Extraction, the requirement for Planned Treatment in existing areas of High-level Degradation and Contamination may be waived.

- (f) <u>Emergency Exemptions</u>. Where a Producer's water supply or water quality problem is so urgent that the viable option for maintaining an adequate short-term supply that meets drinking water standards involves an action in conflict with the operating principles outlined in Section 28 (e) hereof, Watermaster may approve a short-term action contingent upon the Applicant Producer concurrently submitting an acceptable long-term action plan with acceptable deadlines for implementation. In general, the long-term action plan must be approved prior to or concurrently with the short-term action.
- not lead to further degradation of water quality in the Basin, a Five- Year Water Quality and Supply Plan must be prepared and updated annually by Watermaster, projecting water supply requirements and water quality conditions for each period of five (5) calendar years beginning November 1, 1991, and each November 1 thereafter. This Plan will also include a water quality monitoring element to obtain supplemental information as needed to assist in projecting contamination levels. Watermaster will supply the Producers with projections of contaminant migration by June 1 of each year for the preparation of these Water Quality and Supply Plans.

Each purveyor of potable water produced from the Basin shall submit the following information to Watermaster by July 31 of each year:

- (1) Projected quarterly water supply requirements for each of the following five calendar years and the proposed pumping rates, in gallons per minute, for each well;
 - (2) Identification of each Production well known to contain

contaminants and the contaminant levels;

- (3) Proposed methods for meeting the water supply requirements of the system if contaminant levels are, or are projected by Watermaster to become, greater than drinking water standards; and
 - (4) Any intended treatment facility.

Watermaster shall analyze the information submitted by Producers and develop an overall draft Basin Water Quality and Supply Plan. A draft Plan will be submitted by Watermaster to the Los Angeles Regional Water Quality Control Board, and for public review and comment per Section 28 (i) hereof, by November 1. Appropriate modifications resulting from comments received will be reflected in the final draft, and a staff report providing an explanation of decisions will be made available.

(h) Ground Water Treatment Facilities.

- (1) Producers in the Basin shall notify Watermaster in advance at the initial stages of planning of their intent to construct any Facility to remove volatile organic compounds (VOCs), nitrates, or other contaminants from water Produced from the Basin. Such notice shall include the following information:
 - the intended location and a description of the Treatment Facility;
 - the water production capacity;
 - the rate of contaminant removal capacity;
 - the expected concentration of all identified contaminants in the water to be treated;
 - the expected concentration of all identified contaminants in the water after treatment;
 - the intended disposition of all water to be treated;
 - the expected initiation date and period of time over which the Treatment Facility will operate; and
 - the expected capital and operating costs of the Treatment Facility.
 - (2) In addition, the Producer shall describe all necessary

permits and/or all permits for which it has applied or has received from all regulatory agencies with regard to such Treatment Facility and shall supply to Watermaster copies of all environmental documents required under the California Environmental Quality Act and/or the National Environmental Protection Act. No construction of such Treatment Facilities shall be initiated without the prior written approval of Watermaster. Watermaster shall promptly examine each submittal for compatibility with available information, the Five- Year Plan and the operating principles, and notify the Applicant of its findings and decision regarding such proposed Treatment Facility no later than at its first regular meeting following sixty (60) days after receipt of a complete submittal by the Producer. Watermaster will also report its determination to the Los Angeles Regional Water Quality Control Board.

- (3) All operators of Treatment Facilities shall report quarterly to Watermaster at least the following information:
 - name or other designation of the Treatment Facility;
 - quantity of water treated during quarter;
 - quantity of each contaminant removed;
 - quality of water before treatment, at beginning and end of each quarter;
 - quality of water after treatment, at beginning and end of each quarter; and
 - operation and maintenance costs for each quarter.

(i) <u>Decision Making Process. Hearings and Appeals.</u>

(1) All Watermaster determinations relating to the control of Pumping for water quality purposes shall be based upon a staff recommendation and information and recommendations received from or furnished by affected Producers. Staffs recommendation shall result from staff's analysis of information presented by interested Parties, all

available water quality data, Watermaster's Five-Year Plan, Ground Water modeling and other water quality trend analysis reports, and will be based on the operating principles set forth in these rules. Staff shall provide supporting data to document each recommendation that it makes to Watermaster. After consideration of the staff recommendation and public comment provided at the Watermaster meeting, Watermaster shall make a final decision.

- Water Quality and Supply Plan will be held following a thirty (30) day public review and comment period. A notice of the availability of such draft will be sent to all Parties to the Judgment as well as to all other interested Parties following the regular Watermaster meeting in November of each year, along with a notice of the date, time and place of the public hearing, to be scheduled not less than thirty (30) days after the mailing date of the notice of availability of the draft Plan. A notice of public hearing will also be published in the San Gabriel Valley's key local newspaper(s) at the beginning of the public review period. Consideration of comments received is described in Section 28 (g) hereof.
- (3) Appeal of a Watermaster decision may be made to the Watermaster who shall notice and consider the same at a public hearing. Actions by the Watermaster are subject to review by the Court. Any Party may, by a regularly noticed motion, petition the Court for review of Watermaster's action or decision. Notice of such motion shall be served and filed within ninety (90) days after such Watermaster action or decision.

29. Watermaster-directed Groundwater Management Programs. Upon written request by any Party, or on recommendation of Watermaster staff, Watermaster may initiate an investigation of existing or proposed pumping activities, groundwater levels, recharge potential and other factors that influence groundwater supply in any specific area of the Basin. Based on the findings of the investigation, and in accordance with Section 40(a) of the Judgment, Watermaster may determine that a groundwater management program is needed to assure equitable water supply availability to all affected Parties in the investigation area. Such a program may require that Producers reduce pumping from one or more wells, take water from another source in lieu of pumping groundwater, or a combination of those and/or other measures; however, no program adopted by Watermaster pursuant to this section shall effect a modification or amendment of the quantities specified in the declared rights of any Party under the Judgment.

If Watermaster determines such a management program is needed within a specific area of the Basin, Watermaster will develop the program with review and comment by affected Parties, and will first attempt to facilitate its implementation through voluntary agreements among the various affected Parties. Watermaster may also participate in such agreements as appropriate, subject to court approval.

If any affected Party refuses voluntary participation in the groundwater management program, or if the affected Parties cannot reach agreement within a reasonable time not to exceed 12 months from the date that Watermaster receives the draft program at a regular meeting, Watermaster will consider adoption of the program at a duly noticed public hearing and, if the program is adopted, will seek court approval of the program as part of the Watermaster Operating Criteria set forth in the Judgment. Watermaster will implement the program upon court approval and may use funds collected through the In-lieu Assessment to reimburse a Producer for costs incurred

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beyond normal operating costs to comply with the Watermaster-directed groundwater management program.

APPENDIX "A"

DEFINITIONS

- (a) <u>Base Annual Diversion Right</u> -- The average annual quantity of water which a Diverter has the right to Divert for Direct Use.
- (b) <u>Direct Use</u> -- Beneficial use of water other than for spreading or Ground Water recharge.
- (c) <u>Divert or Diverting</u> -- To take waters of any surface stream within the Relevant Watershed.
 - (d) <u>Diverter</u> -- Any Party who Diverts.
 - (e) <u>Elevation</u> -- Feet above mean sea level.
 - (f) Fiscal Year -- The period July 1 through June 30, following.
- (g) <u>Ground Water</u> -- Water beneath the surface of the ground and within the zone of saturation.
- (h) <u>Ground Water Basin</u> -- An interconnected permeable geologic formation capable of storing a substantial Ground Water supply.
- (i) <u>Integrated Producer</u> -- Any Party that is both a Pumper and a Diverter, and has elected to have its rights adjudicated under the optional formula provided in Section 18 of the Amended Judgment.
- (j) <u>In-Lieu Water Cost</u> -- The differential between a particular Producer's cost of Watermaster directed Produced, treated, blended, substituted or Supplemental Water delivered or substituted to, for, or taken by such Producer in-lieu of his cost of otherwise normally producing a like amount of Ground Water.
- (k) <u>Judgment</u> -- Judgment entered in Los Angeles Superior Court Civil Action No. 924128, entitled <u>"Upper San Gabriel Valley Municipal Water District v. City of Alhambra, et al,"</u> as amended.
 - (I) <u>Key Well</u> -- Baldwin Park Key Well, being elsewhere designated as

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State Well No. IS/IOW-7R2, or Los Angeles County, Department of Public Works, Well No. 3030-F. Said well has a ground surface elevation of 386.7.

- Long Beach Case -- Los Angeles Superior Court Case No. 722647, (m) entitled "The Board of Water Commissioners of the City of Long Beach, et al, v. San Gabriel Valley Water Company, et al."
- Main San Gabriel Basin or Basin -- The Ground Water Basin underlying (n) the area shown as such on Exhibit "A" of the Judgment.
- Make-up Obligation -- The total cost of meeting the obligation of the (o) Basin to the area at or below Whittier Narrows, pursuant to the Judgment in the Long Beach Case.
- Minimal Producer -- Any Producer whose Production in any Fiscal Year (p) does not exceed five (5) acre-feet.
- Natural Safe Yield -- The quantity of natural water supply which can be (q) extracted annually from the Basin under conditions of the long-term average annual supply, net of the requirement to meet downstream rights as determined in the Long Beach Case (exclusive of Pumped export), and under cultural conditions as of a particular year.
- (r) Operating Safe Yield -- The quantity of water which Watermaster determines may be Pumped from the Basin in a particular Fiscal Year, free of the Replacement Water Assessment under the Physical Solution of the Judgment.
- Overdraft -- A condition wherein the total annual Production from the (s) Basin exceeds the Natural Safe Yield thereof.
- Overlying Rights -- The right to Produce water from the Basin for use on (t) Overlying Lands, which rights are exercisable only on specifically defined Overlying Lands and which cannot be separately conveyed or transferred apart therefrom.
 - Physical Solution -- The Court-decreed method of managing the waters (u)

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of the Basin so as to achieve the maximum utilization of the Basin and its water supply, consistent with the rights declared in the Judgment.

- (v) <u>Prescriptive Pumping Right</u> -- The highest continuous extraction of water by a Pumper from the Basin for beneficial use in any five (5) consecutive years after commencement of Overdraft and prior to filing of the action, as to which there has been no cessation of use by that Pumper during any subsequent period of five (5) consecutive years prior to the filing of said action.
 - (w) <u>Produce or Producing</u> -- To Pump or Divert water from the Basin.
 - (x) <u>Producer</u> -- A Party who Produces water from the Basin.
- (y) <u>Production</u> -- The annual quantity of water Produced from the Basin, stated in acre-feet.
- (z) <u>Pump or Pumping</u> -- To extract ground water from the Basin by Pumping or by any other method.
 - (aa) Pumper -- A Party who Pumps water.
- (bb) <u>Pumper's Share</u> -- A Pumper's right to a percentage of the entire Natural Safe Yield, Operating Safe Yield and appurtenant Ground Water storage of the Basin.
- (cc) <u>Reclaimed Water</u> -- Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur.
- (dd) Relevant Watershed -- That portion of the San Gabriel River Watershed tributary to Whittier Narrows which is shown as such on Exhibit "A" to the Judgment and the exterior boundaries of which are described in Exhibit "B" of the Judgment.
- (ee) <u>Replacement Water</u> -- Water purchased by Watermaster to replace: (1) Production in excess of a Pumper's Share of Operating Safe Yield; (2) the consumptive use portion resulting from the exercise of an Overlying Right; and (3) Production in excess of a Diverter's right to Divert for Direct Use.
 - (ff) Responsible Agency -- The municipal water district which is the normal

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and appropriate source from whom Watermaster shall purchase Supplemental Water for replacement purposes under the Physical Solution of the Judgment, being one of the following:

- (1) Upper District -- Upper San Gabriel Valley Municipal Water District, a member public agency of The Metropolitan Water District of Southern California (MWD).
- San Gabriel District -- San Gabriel Valley Municipal Water (2)District, which has a direct contract with the State of California for State Project water.
- (3) Three Valleys District -- Three Valleys Municipal Water District, a member public agency of MWD.
- Stored Water -- Supplemental Water stored in the Basin pursuant to a (gg) Cyclic Storage Agreement with Watermaster as authorized by Section 34(n) of the Judgment herein.
- Supplemental Water -- Non-tributary water imported through a (hh) Responsible Agency and Reclaimed Water.
- Transporting Parties -- Any Party who has transported water from the (ii) Relevant Watershed or Basin to an area outside thereof within the Year immediately preceding the entry of Judgment, and any Party presently or hereafter having an interest in lands or having a service area outside the Basin or Relevant Watershed contiguous to lands in which it has an interest or a service area within the Basin or Relevant Watershed. Division by a road, highway, or easement shall not interrupt contiguity. Said term shall also include the City of Sierra Madre, or any Party supplying water thereto, so long as the corporate limits of said City are included within one of the Responsible Agencies.
- (jj) Water Level -- The measured Elevation of water in the Key Well, corrected for any temporary effects of mounding caused by replenishment or local

depressions caused by Pumping.

(kk) Year -- A calendar year, unless the context clearly indicates a contrary meaning.

The following are supplemental definitions relating to Section 28 of these rules and regulations.

- (ll) New Extraction -- Any extraction from the Main San Gabriel Basin using a well or other Ground Water extraction facility that becomes active for the first time for water supply purposes on ,or after June 28, 1991.
- (mm) Increased Extraction (Decreased) -- Any modification to an existing well or extraction facility that physically increases (or decreases) the Effective Extraction Capacity of that well or extraction facility. Such modifications may include: (1) changing the well depth, (2) modifying the perforation intervals, (3) modifying the pump and/or motor, (4) installing or modifying distribution pipelines, (5) installing or modifying booster pumps, and (6) installing or modifying other distribution system components. Normal maintenance work would be excluded.
- (nn) <u>Effective Extraction Capacity</u> -- The actual capacity of a well or extraction facility to extract Ground Water from the Basin using the pumping equipment and system appurtenances in good working order as they existed on June 28, 1991.
- (00) <u>Treatment Facility</u> -- Any facility that provides treatment for contaminated Ground Water in order to meet drinking water standards.
- (pp) <u>Planned Treatment</u> -- A specific Treatment Facility with a designated source of Ground Water supply and schedule for development.
- (qq) <u>Active Well</u> -- Any well used or that could be used without modifications to extract Ground Water.
 - (rr) <u>Inactive Well</u> -- Any well that is not in service at the time of filing of an

application hereinunder.

- (ss) <u>Abandoned Well</u> -- A well that has been abandoned in accordance with the provisions of state, county or local laws and regulations.
- (tt) <u>High-level Degradation and Contamination</u> -- Ground Water containing contaminants in excess of the federal or state maximum contaminant level. Some areas of the Basin contain higher contaminant concentrations than others and Treatment Facilities shall be planned to extract Ground Water from the higher level areas of contamination in the Basin.
- (uu) Replacement Well -- A new well that will replace an existing well due to structural or mechanical failure, which is located in the same general vicinity and which has the same physical characteristics (size, depth, perforation intervals) and design extraction capacity as the well it is replacing.

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APPENDIX "B"

SUMMARY OF CRITICAL DATES AND ACTIONS FOR WATERMASTER

This summary of critical dates and actions for Watermaster is presented for the convenience of Watermaster members, the Parties and others in carrying out the provisions of the Court Judgment. It does not necessarily include all critical dates and actions under the Judgment.

and Determination must be mailed to each Pumper and Integrated Producer, including a statement of their entitlements under such Determination.(R/R 14(c))

(b) Budget.

Adopt a proposed Administration Budget for the succeeding Fiscal Year and within fifteen (15) days mail a copy thereof together with a statement of the level of the Administration Assessment levied by Watermaster which will be collected for purposes of raising the necessary funds for said budget. (R/R 18(a))

(c) Assessments.

In addition to the Administration Assessment, Watermaster shall levy the Replacement Water Assessment, Make-up Obligation Assessment and the Inlieu Water Assessments, if any. (R/R 19)

- 8. <u>June 1</u> Watermaster to supply Producers with projections of contaminant migration by June 1. (R/R 28(g))
- 9. <u>July</u> Authorize preparation of Annual Watermaster Report. Receive tentative budget from San Gabriel River Watermaster.
- 10. <u>July 31</u> Quarterly Reports, as required by the Rules and Regulations, of Production (R/R 13), Cyclic Storage (R/R 26(h)) and data required by Section 28 (d), due to Watermaster. Producers of potable water from the Basin must submit to Watermaster the data required by Section 28(g).
- 11. August 15 On or before this date Watermaster must give written notice of all applicable Assessments to all Parties. (R/R 19)
- 12. <u>September 20</u> All Assessments payable to Watermaster. (R/R 19(a))
- 13. <u>September 30</u> Must pay Upper Area share of San Gabriel River Watermaster budget by this date.

- 14. October 1 Mail Notice of Nomination Election of Producer representatives to be held at Watermaster's November meeting. (R/R 19(a))
- October 31 Quarterly Reports, as required by the Rules and Regulations, of Production (R/R 13), Cyclic Storage (R/R 26(h)) and data required by Section 28 (d), due to Watermaster.

16. November

- (a) Watermaster Annual Report filed with the Court and copies mailed to each Party by November 1. (R/R 24)
- (b) Draft Annual Five-Year Water Quality and Supply Plan under Section 28 (g) to be filed with the Los Angeles Regional Quality Control Board and circulated for public review and comment by November 1.
- (c) Prior to Watermaster's meeting in November, nomination of Public Representatives to Watermaster by Upper District and San Gabriel District.
- (d) Watermaster's meeting in November--election of six Producer Representatives for nomination to Watermaster. (R/R 9(b)) Petition Court for confirmation of nominees and give notice of hearing on Petition to all Parties. Within ninety (90) days of a vacancy on Watermaster, it shall be filled by nomination by Upper District or San Gabriel District if for a Public Representative and by a special election at a Watermaster meeting for a Producer Representative, after notice thereof to all Parties, and Watermaster Petition (and notice thereof to all parties) for Court confirmation of nominèe. (R/R 10)

PERMANENT TRANSFER OF WATER RIGHTS - PRESCRIPTIVE PUMPING RIGHT

For a valuable consideration, receipt of whi	ich is hereby acknowledged,
	("Seller") does hereby assign and transfer in perpetuity to
	, ("Buyer") all rights to the quantity of
	mping Right" and the appropriate % of "Pumper's Share"
adjudicated to Seller or his predecessor in the Judg	ment in the case of Upper San Gabriel Valley Municipal
Water District, v. City of Alhambra, et al, Los An	ageles Superior Court No. 924128, together with all the
attendant rights, powers and privileges pertaining	
(Check appre	opriate provision)
This transfer does \square does not \square include associated with said transferred rights and in exist	acre-feet of "carry-over of unused rights" ence on the date hereof.
DATED:	
BUYER	SELLER
(Signature)	(Signature)
Name of Designee (of Buyer) to receive service of Processes and Notices:	Name of Designee (of Seller) to receive service of Processes and Notices:
Address	Address
Telephone No.:	Telephone No.:
Fo be executed by both Buyer and Seller and, if separately service area where the water was used by Seller and a map	y requested by Watermaster, be accompanied by a map of the of the service area where the water is intended to be used by
(Have the appropriate individual(s) or corporate attached of the transfer.)	acknowledgments completed by both Buyer and Seller as part
A TRUE COPY HEREOF MUST BE FILED WITH WA	ATERMASTER WITHIN 15 DAYS OF EXECUTION.
To be accompanied by completed "Stipulation Re Interventio	

CORPORATE ACKNOWLEDGMENT

STATE OF CALIFORNIA)§ COUNTY OF LOS ANGELES)	
On this day of, 2	0, before me, the undersigned Notary
Public, personally appeared	
known to me proved to me on the basis of satisfactor the within Instrument as	y evidence to be the person(s) who executed
or on behalf of the Corporation therein named, and executed it.	acknowledged to me that the Corporation
WITNESS my hand and official seal.	
Signature	
(SEAL)	Name (Typed or Printed) Notary Public in and for said County and State
INDIVIDUAL(S) ACK	NOWLEDGMENT
STATE OF CALIFORNIA)§ COUNTY OF LOS ANGELES)	
On this day of, 20	
Public, personally appeared	,
known to me proved to me on the basis of satisfactory subscribed to the within instrument and ackn same.	v evidence to be the person(s) whose name(s) owledged to me thatexecuted the
WITNESS my hand and official seal.	
Signature	
(SEAL)	Name (Typed or Printed) Notary Public in and for said County and State

EXHIBIT A-2

PERMANENT TRANSFER OF WATER RIGHTS - BASE ANNUAL DIVERSION RIGHT

For a valuable consideration, receipt of wl	hich is hereby acknowledged,
	_ ("Seller") does hereby assign and transfer in perpetuity to
	, ("Buyer") all rights to the quantity o
acre-feet of the "Base Annual D	Diversion Right" adjudicated to Seller or his predecessor in
the Judgment in the case of Upper San Gabriel Va	alley Municipal Water District, v. City of Alhambra, et al
Los Angeles Superior Court No. 924128, togeti pertaining thereto.	her with all the attendant rights, powers and privileges
DATED:	
BUYER	SELLER
(Signature)	(Signature)
Name of Designee (of Buyer) to receive service of Processes and Notices:	Name of Designee (of Seller) to receive service of Processes and Notices:
Address	Address
Telephone No.:	Telephone No.:
To be executed by both Buyer and Seller and, if separate service area where the water was used by Seller and a mathe Buyer.	ely requested by Watermaster, be accompanied by a map of the ap of the service area where the water is intended to be used by
Have the appropriate individual(s) or corporate attached of the transfer.)	d acknowledgments completed by both Buyer and Seller as part
A TRUE COPY HEREOF MUST BE FILED WITH W	ATERMASTER WITHIN 15 DAYS OF EXECUTION.
	ion After Judgment" if Buyer is not a party to the Judgment)

CORPORATE ACKNOWLEDGMENT

STATE OF CALIFORNIA)§ COUNTY OF LOS ANGELES)	
On this day of, 20	, before me, the undersigned Notary
Public, personally appeared	22
known to me proved to me on the basis of satisfactory the within Instrument as	v evidence to be the person(s) who executed
or on behalf of the Corporation therein named, and executed it.	acknowledged to me that the Corporation
WITNESS my hand and official seal.	
Signature	
(SEAL)	Name (Typed or Printed) Notary Public in and for said County and State
INDIVIDUAL(S) ACK	NOWLEDGMENT
STATE OF CALIFORNIA)\$ COUNTY OF LOS ANGELES)	
On this, 20	
Public, personally appeared known to me proved to me on the basis of satisfactory subscribed to the within instrument and acknown same.	v evidence to be the person(s) whose name(s)
WITNESS my hand and official seal.	
Signature	
(SEAL)	Name (Typed or Printed) Notary Public in and for said County and State

EXHIBIT B-2

PERMANENT TRANSFER OF WATER RIGHTS - INTEGRATED PRODUCTION RIGHT

For a valuable consideration, receipt of which	ch is hereby acknowledged,
	("Seller") does hereby assign and transfer in perpetuity to
	, ("Buyer") all rights to the quantity of
acre-feet of the "Diversion Com	ponent" adjudicated to Seller or his predecessor in the
Judgment in the case of Upper San Gabriel Valley N	Municipal Water District, v. City of Albambra, et al. Los
Angeles Superior Court No. 924128, together with	all the attendant rights, powers and privileges pertaining
thereto.	5 - 57 F - W + 15 take privileges pertaining
(Check appro	priate provision)
This transfer does \(\text{does not } \(\text{linclude} \)	acre-feet of "carry-over of unused rights"
associated with said transferred rights and in exister	nce on the date hereof.
DATED:	
BUYER	SELLER
Signature)	(Signature)
Name of Designee (of Buyer) to receive	
ervice of Processes and Notices:	Name of Designee (of Seller) to receive service of Processes and Notices:
ddress	*
	Address
elephone No.:	Telephone No.:
o be executed by both Buyer and Seller and, if separately r rvice area where the water was used by Seller and a map o e Buyer.	requested by Watermaster, be accompanied by a map of the of the service area where the water is intended to be used by
lave the appropriate individual(s) or corporate attached act the transfer.)	knowledgments completed by both Buyer and Seller as part
TRUE COPY HEREOF MUST BE FILED WITH WAT	ERMASTER WITHIN 15 DAVE OF FYING
be accompanied by completed "Stimulation Do Internation of the complete of the	DAYS OF EXECUTION.
be accompanied by completed "Stipulation Re Intervention A EXHIBI"	After Judgment" if Buyer is not a party to the Judgment) T.C-1

CORPORATE ACKNOWLEDGMENT

STATE OF CALIFORNIA) (COUNTY OF LOS ANGELES)	}	
On this day of		20, before me, the undersigned Notary
Public, personally appeared		
known to me proved to me on the bathe within Instrument as	asis of satisfact	ory evidence to be the person(s) who executed
or on behalf of the Corporation the executed it.	erein named, a	nd acknowledged to me that the Corporation
WITNESS my hand and o	fficial seal.	
	Signature	
(SEAL)		Name (Typed or Printed) Notary Public in and for said County and State
INDIV	IDUAL(S) AC	KNOWLEDGMENT
STATE OF CALIFORNIA)§ COUNTY OF LOS ANGELES)	}	
		20, before me, the undersigned Notary
	asis of satisfacto	ory evidence to be the person(s) whose name(s) knowledged to me thatexecuted the
WITNESS my hand and o	fficial seal.	
	Signature	
(SEAL)		Name (Typed or Printed) Notary Public in and for said County and State

EXHIBIT C-2

TEMPORARY ASSIGNMENT OR LEASE OF WATER RIGHT

commencing on		, ("Assignee")
commencing on	and terminating	, on the following water right(s):
	(Check following ap	propriate category)
Production Right Prescriptive Pumpin Base Annual Diversi adjudicated to Assignor or his py City of Albambra, et al." Lo	ion RightAF	Integrated Production Right (consisting of AF of "Prescriptive Pumpin Component" andAF of "Diversion Component") Carryover RightAF e case of "Upper San Gabriel Valley Municipal Water District,
Said assignment is made upon (1) Assignee shall exercise produced by Assignee produced hereunder; (2) Assignee shall put all v	n condition that: e said right on behalf of Assign from the Relevant Watershed of vaters utilized pursuant to said tra	nor for the period described hereinabove and the first water the Main San Gabriel Basin after the date hereof shall be that ansfer to reasonable beneficial use; and ount of the water production hereby assigned or leased.
DATED:		
ASSIGNEE		ASSIGNOR
Signature		Signature
Signature Name of Designee (of Assigne service of Processes and Notice	e) to receive	Signature Name of Designee (of Assignor) to receive service of Processes and Notices:
Name of Designee (of Assigne	e) to receive	Name of Designee (of Assignor) to receive service of Processes and Notices:
Name of Designee (of Assigne service of Processes and Notice	es:	Name of Designee (of Assignor) to receive service of Processes and Notices:
Name of Designee (of Assigne service of Processes and Notice Address Tel. No.:	es:	Name of Designee (of Assignor) to receive service of Processes and Notices: Address

EXHIBIT D-1

(To be accompanied by completed "Stipulation Re Intervention After Judgment" if Assignee is not a party to the Judgment)

CORPORATE ACKNOWLEDGMENT

STATE OF CALIFORNIA)§ COUNTY OF LOS ANGELES)	
On this day of, 20	O, before me, the undersigned Notary
Public, personally appeared	
known to me proved to me on the basis of satisfactory the within Instrument as	
or on behalf of the Corporation therein named, and executed it.	acknowledged to me that the Corporation
WITNESS my hand and official seal.	
Signature	
(SEAL)	Name (Typed or Printed) Notary Public in and for said County and State
INDIVIDUAL(S) ACK	NOWLEDGMENT
STATE OF CALIFORNIA)§ COUNTY OF LOS ANGELES)	
On this day of, 20	0, before me, the undersigned Notary
Public, personally appeared	· · · · · · · · · · · · · · · · · · ·
known to me proved to me on the basis of satisfactory subscribed to the within instrument and acknown.	y evidence to be the person(s) whose name(s) nowledged to me thatexecuted the
WITNESS my hand and official seal.	
Signature	**************************************
	Name (Typed or Printed) Notary Public in and for said

EXHIBIT D-2

1 2	NOSSAMAN, GUTHNER, KNOX & ELLIOTT, LLP FREDERIC A. FUDACZ, State Bar No. 050546 ALFRED E. SMITH, State Bar No. 186257 ALFRED E. SMITH, State Bar No. 186257
3	Los Angeles, CA 90071-1602
4	II Lelephone: (213) 612-7800
5	Facsimile: (213) 612-7801 Attorneys for Main San Gabriel Basin Watermaster
6	
7	
8	SUPERIOR COURT OF THE STATE OF CALIFORNIA
9	FOR THE COUNTY OF LOS ANGELES
10	The state of the s
11	Upper San Gabriel Valley Municipal Water) Case No.: C 924128
12	District, STIPULATION RE INTERVENTION
13	Plaintiff, AFTER JUDGMENT OF
14	vs.
15	City of Alhambra, et al,
16	Defendant
17	}
18)
19	IT IS HEREBY STIPULATED by and between the Main San Gabriel Basin
20	Watermaster for and on behalf of all parties to the instant action (pursuant to Section
21	57 of the amended Judgment) and, the
22	proposed Intervenor(s) herein, that said proposed Intervenor(s) may intervene in the
23	instant action and become entitled to all of the benefits and bound by all of the
24	burdens of the Judgment herein.
25	
26	The Court will consider the attached proposed Order confirming said
27	Intervention at o'clock on 20, in
28	Department 38, located at 111 North Hill Street, Los Angeles, California 90012.
	STIPULATION RE INTERVENTION AFTER JUDGMENT OF
	EXHIBIT E-1
11	

1		30 days notice to the parties herein of said
2	hearing.	
3		
4	DATED:	WATERMASTER
5		
6		ByChairman
7		Chairman
8	Attest:	
9		
10		
11	Secretary	
12		
13	DATED:	INTERVENOR(S)
14		
15		
16		Ву
17		
18		Ву
19		
20		Name of Intervenor's Designee:
21		* ************************************
22		Address of Designee:
23		
24		
25		
26		Telephone Number of Designee:
27		
28		
- 11		

STIPULATION RE INTERVENTION AFTER JUDGMENT OF

2

	II .		
1	FREDERIC A. FUDACZ, State Bar No. 050546 ALFRED E. SMITH, State Bar No. 186257		
2	NOSSAMAN, GUTHNER, KNOX & ELLIOTT, LLP 445 South Figueroa Street, 31st Floor Los Angeles, CA 90071-1602 Telephone: (213) 612-7800		
3			
4	Facsimile: (213) 612-7801 Attorneys for Main San Gabriel Basin Watermaster		
5	de la man de la de		
6			
7			
8	SUPERIOR COURT OF THE STATE OF CALIFORNIA		
9	FOR THE COUNTY OF LOS ANGELES		
10			
11	Upper San Gabriel Valley Case No.: C 924128		
12	Municipal Water District, DESIGNEE TO RECEIVE FUTURE NOTICES FOR AND ON BEHALF OF		
13	Plaintiff, DEFENDANT(S)		
14	vs.		
15	City of Alhambra, et al,		
16	Defendant		
17			
18	Defendant(s)	-	
19	hereby designates:	-	
20	whose address is		
21	and whose telephone number is as said Defendant's Designee to		
22	receive service of all future notices, determinations, requests, demands, objections, reports and		
23	other papers and processes to be served upon said defendant(s) or delivered to said defendant(s)		
24	herein.		
25			
26	A copy hereof has been served upon the Watermaster herein, by mail, on		
27			
28	DESIGNEE TO RECEIVE FUTURE NOTICES FOR AND ON BEHALF OF DEFENDANT(S)- 1		
	EXHIBIT F-1		

1	Executed under penalties of perjury at, California,
2	this day of, 20
3	
4	
5	
6	
7	
8	
9	
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11	
12	
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14	
15 16	
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21	4
22	380
23	
24	
25	
26	
27	
28	DESIGNEE TO RECEIVE FUTURE NOTICES FOR AND ON BEHALF OF DEFENDANT(S)- 2
	EXHIBIT F-2

NOTICE OF TRANSFER OF OVERLYING RIGHTS WITH PROPERTY TO WHICH THEY ARE APPURTENANT

On, <u>20</u> , the	undersigned (or his predecessor), adjudged Overlying
	shed hereto and by this inference incorporated herein, in the
	ICIPAL WATER DISTRICT, v. CITY OF ALHAMBRA,
	28, transferred said property and said Overlying Rights
	, whose address is
	, and whose
telephone number is	
Whose address is	and
	as his/her Designee to receive all
future notices and processes in said action.	
DATED.	
DATED:	
BUYER	SELLER
	wa
	Market Scotter and the second
(Signature)	(Signature)
(Signature)	(Signature)
To be executed by both Buyer and Seller and, if separate service area where the water was used by Seller and a m the Buyer.	ely requested by Watermaster, be accompanied by a map of the ap of the service area where the water is intended to be used by
(Have the appropriate individual(s) or corporate attack include Exhibit 1)	hed acknowledgments completed as part of the transfer, and
A TRUE COPY HEREOF MUST BE FILED WITH V	WATERMASTER WITHIN 15 DAYS OF EXECUTION.
(To be accompanied by completed "Exhibit E" if Buyer is n	ot a party to the Judgment)

CORPORATE ACKNOWLEDGMENT

STATE OF CALIFORNIA)§ COUNTY OF LOS ANGELES)	
On this day of, 20	, before me, the undersigned Notary
Public, personally appeared	
known to me proved to me on the basis of satisfactory the within Instrument as	v evidence to be the person(s) who executed
or on behalf of the Corporation therein named, and executed it.	acknowledged to me that the Corporation
WITNESS my hand and official seal.	
Signature	
(SEAL)	Name (Typed or Printed) Notary Public in and for said County and State
INDIVIDUAL(S) ACK	NOWLEDGMENT
STATE OF CALIFORNIA)§ COUNTY OF LOS ANGELES)	
On this, 20 Public, personally appeared,	
known to me	y evidence to be the person(s) whose name(s)
WITNESS my hand and official seal.	
Signature	
(SEAL)	Name (Typed or Printed) Notary Public in and for said County and State

EXHIBIT G-2

Mailing Address: 725 North Azusa Ave. Azusa, CA 91702

MAIN SAN GABRIEL BASIN WATERMASTER SUPERIOR COURT CASE NO. 924128-LOS ANGELES COUNTY

(State Well Number)

(Recordation Number)

(Owner's Designation)

APPLICATION TO DRILL WATER WELL

(1) A'DI	PLICANT	·			(To Be Completed by Watermaster)
Name					(8) PROPOSED PUMPING EQUIPMENT:
Address					(A) Pump
71000		****	-		Electric () Natural Gas ()
(2) LO	CATION	OF PROPOS	SED WELL:		Propane () Diesel ()
Well Ad	dress:				Other ()
Townsh	ip, Range,	and Section_			(B) Make
Thomas	Brothers C	duide (Please	indicate year,	page number and	(C) Pump Size (hp) (gpm)
coording	ates.)			A STATE OF THE STA	(D) Design Efficiency
Ā	r's Parcel N			11141-11-11-11-11-11-11-11-11-11-11-11-1	(9) PROXIMITY TO POTENTIAL SOURCES OF
Assessor	r's Parcel P	٧٥		well location relative	CONTAMINATION:
to street	e or other r	najor landmai	sketch snowing	g well location relative	(A) Distance to nearest sewer line or septic tank(ft.)
(3) NI A I	ME OF W	ETT DONT	<u>183.)</u> INIC CONT	RACTOR:	(B) Wells (Please provide distance, direction and name of nearest
(3) 1171	WIL OI W	DUL DRILL	and CON1	KACTOR;	upgradient well(s) with volatile organic chemical or nitrate
(4) PR(POSED 1	ISF.	(5) DRILL	ING EQUIPMENT:	levels above a maximum contaminant level, if known.)
Municip		Irrigation (ary ()	
Domesti	c()	Industrial (ole ()	**************************************
Water Q	uality Clea	nup ()		ner ()	(10) Please way: 1 F.C (5) 1 ::
Other ()			A	(10) Please provide copy of County of Los Angeles permits and State Department of Water Resources Water Well
			RACTERIST		Driller Reports and any other permits for construction of a
	g Installed			Packed:	new well upon completion of proposed well.
) PLAS	STIC()	Yes () No () Size	(11) Please provide Watermaster with copies of all feasibility
OTHER		Gana	Diament	D1 - 1	studies, alternative water supply sources, water quality
From T	<u>, </u>	Gage or	Diamet of	er Packed From To	studies or other reports which validate the Applicant's
	t. Diam.	0.40	Bore	ft. ft,	need to drill a new well. Applicant must provide
- "		,,,,,,,	Borc	16. 16.	supporting data to show compliance with the requirements
					of Section 28 with particular reference to Section 28(e) of
-31.7					Watermaster's Rules and Regulations.
Size of s	hoe or well	ring:			Therefore come to comply with all annual time of the Art of
Describe	joint				I hereby agree to comply with all regulations of the Main San Gabriel Basin Watermaster pertaining to well construction,
	rations or				1 11 11 11 11 11 11 11 11 11 11 11 11 1
Type of p	berroration	or size of scre			repair, modification, destruction and inactivation. The applicant will furnish the Watermaster a complete well log
From	То	per	Rows	Slot	upon completion of well construction.
ft.	ft.	row	ft.	Size	upon completion of well constituction.
					Submitted for Applicant by:
					sacrification reprisent by.
					4
C. Const					
Will a su	rface sanita	ry seal be pro	vided? Yes () No ()	Signature:
To what	depth?	ft.			
Is any str	ata anticipa	ited to be seal	ed against pol	lution?	Title:
Yes ()		ed depth of st			
from	te anticipat	eu depin of st	rata 	Δ	Date:
from		ft to		ft.	
Proposed	method se	alima			Date Received by Watermaster:
		9			Watermaster Action: Approved () Denied ()
(7) WEL	L TESTS	:			Date of Action:
Will a pu	imp test b	e made? Yes	() No()	If yes by whom?	Permit Number:
			., ()		By:
Anticipate	ed Well Yie	eld		14.00	(Name)
Will a che	emical anal	ysis be made?	Yes () No ()	(ivanie)
Will an el	ectric log b	e made of we	11? Yes () No	() (If yes, file	(Title)
Copy with	Watermas	ster upon well	completion)		(1100)

WELL LOCATION SKETCH

NORTH BOUNDAR	Y OF SECTION	
NW 1/4	NE 1/4	1/2 MILE
SW 1/4	SE 1/4	1/2 MILE
1/2 MILE	1/2 MILE	

Township N/S
Range E/W
Section No.

A. Location of well in sectionized areas. Sketch roads, railroads, streams, or other features as necessary.

	NORTH 	
WEST		EAST
	SOUTH	

B. Location of well in areas not sectionized. Sketch roads, railroads, streams, or other features as necessary. Indicate distances. Mailing Address: 725 North Azusa Ave. Azusa, CA 91702

(9B) PROPOSED CONSTRUCTION:

MAIN SAN GABRIEL BASIN WATERMASTER

SUPERIOR COURT CASE NO. 924128-LOS ANGELES COUNTY

(State Well Number)
(Recordation Number)
(Owner's Designation)

APPLICATION TO MODIFY EXISTING WATER WELL

	JCANT:						Will a surface sanitary seal be provided? Yes () No ()
NameAddress							To what depth?ft.
71001000							Is any strata anticipated to be sealed against pollution? Yes () No () If yes, note depth of strata
(2) LOCATION OF PROPOSED WELL: Well Address:							from ft. to ft.
Township	o, Range, and						Method of sealing
	Brothers Guid	de (Please in	dicate year,	page nu	mber and		(10) WELL TESTS:
coordina	tes.)		-				Was a pump test made? Yes () No () (If yes, attach most recent copy)
decassor	's Parcel No.						gal. min. withft. drawdown afterhrs.
	ttach copy of		etch chowin	a well la	cation va	lating to	Temperature of water
	other major		CILII SHOWIN	g well to	canon re	mitre 10	Was a chemical analysis made? Yes () No () Was electric log made of well? Yes () No () (If yes, attach most recent
	E OF WELL		CONTRAC	CTOR:			copy)
							(11) WELL LOG:
	OF WORK:						Total depthft. Depth of completed wellft.
Deepenin	ig () Modif	y Perforation	is () Incre	ease Yiel	d ()		Formation: Describe by color, character, size of material and
	ioning () Of OSED USE:	ther ()	6) DRILLIN	IC POTI	DON ATTAINT		structure ft. to ft.
• •	l () Irrigation			otary (i	(Please attach copy of existing well log. If well log is not available, describe
	() Industri		Ĉ	able ()		well lithology in space provided or on attached page.)
	ality Cleanup			ther (
Other ()				í 		(12) HISTORIC WELL MODIFICATIONS:
	SING INSTA		-				(On an attached page, please provide a chronology of all historic well
) PLASTI	C()		ravel Pac			modifications which may have affected well yield or water quality.)
OTHER (()	Conn			o()Siz		(13A) EXISTING WELL PUMP DATA:
From 1	го	Gage		iameter of	From	cked To	A. Pump Type:
	ft. Diam.	Wall	l B	ore	ft.	ft.	Electric () Natural Gas () Other () Propane () Diesel ()
		,,,,,,			1,50	14.	B. Pump Performance:
							Horsepower (GPM)
							Design Efficiency
	ioe or well rir	ng:	_				(13B) PROPOSED WELL PUMP DATA:
Describe	Joint SING INSTA	LIED (man)	-nad\.				A. Pump Type:
) PLASTI			ravel Pac	tod.		Electric () Natural Gas () Other ()
OTHER (**		o()Siz	e.	Propane () Diesel () B. Pump Performance:
1	T.	Gage		iameter		cked	Horsepower (GPM)
	Го	or	- 1	of	From	To	Design Efficiency
ft.	ft. Diam.	Wall	Be	оге	ft,	ft.	(14) Please provide copy of County of Los Angeles permits and State
							Department of Water Resources Water Well Driller Reports and any other
	_				-		permits for modification of an existing well upon completion of modification
Size of sh	oe or well rin	P:	1		-	h	of well. (15) Please provide Watermaster with copies of all feasibility studies,
Describe	joint						alternative water supply sources, water quality studies or other reports which
(8A) PEI	REFORATION	S OR SCRE	EN (existin	g):			validate the Applicant's need to modify this well. Applicant must provide
Type of p	erforation or						supporting data to show compliance with the requirements of Section 28 with
V	I m. 1	Perf.	Rows	1			particular reference to Section 28(e) of Watermaster's Rules and Regulations.
From ft.	To ft.	per row	per ft.		Slot Size		I hereby agree to comply with all regulations of the Main San Gabriel Basin
16.	и.	10W	11.		Size		Watermaster pertaining to well construction, operation, repair, modification,
					****		destruction and inactivation. The Applicant will furnish the Watermaster a
							complete well log upon completion of well modification.
(8B) PER	FORATION	S OR SCRE	EN (propos	ed):			Submitted for Applicant by
Type of p	erforation or						Submitted for Applicant by:
From	To	Perf.	Rows	f .	C1~4		Signature:
ft.	ft.	per row	per ft.		Slot Size		Title:
	14.	10#	11.		0120		
							Date:
(0.11							Date Received by Watermaster:
9A) EXI	STING CON	STRUCTION	N:				Watermaster Action:
was a sur.	face sanitary	seal provided	17 Yes ()]	No()			Approved () Denied ()
vere any	epth? strata sealed :	II.	tion? Van /) Ma (Ý		Date of Action:
	e depth of stra		non: 1 cs () 140 (£		Perint Number:
rom		fl. to		ft.			By:
rom		ft. to		ft.			(Name)
Method of	sealing						(Title)
							\/

WELL LOCATION SKETCH

NORTH BOUNDAR	Y OF SECTION	
NW 1/4	NE 1/4	1/2 MILE
SW 1/4	SE 1/4	1/2 MILE
1/2 MILE	1/2 MILE	

Township	N/S
Range	E/W
Section No.	

A. Location of well in sectionized areas. Sketch roads, railroads, streams, or other features as necessary.

	NORTH	
WEST		EAST
	SOUTH	

B. Location of well in areas not sectionized. Sketch roads, railroads, streams, or other features as necessary. Indicate distances.

Mailing Address: 725 North Azusa Ave. Azusa, CA 91702

MAIN SAN GABRIEL BASIN WATERMASTER

SUPERIOR COURT CASE NO. 924128-LOS ANGELES COUNTY

(State We	ll Numl	er)
-----------	---------	-----

(Recordation Number)

n)

				APPLIC	CATION TO	O DESTROY WELL	(Owner's Designation	
(1) API	PLICANT	:				(10) METHOD OF DESTRO	OYING: (Please provid	
Name						an explanation of how the	well is to be destroyed	
Address	3					including drawings showing	the proposed method o	
(2) LO	CATION	OF WELL.				destroying. Please provide copy	of County of Los Angele	
(2) LOCATION OF WELL: Well Address: Township, Range, and Section Thomas Brothers Guide (Please indicate year, page number and coordinates.)						permits and State Department of Water Resources Water		
						Well Drillers reports and	any other permits fo	
					ber and	destruction of well following des	struction of the well.)	
Assesso	r's Parcel I	Vo.			-	· · · · · · · · · · · · · · · · · · ·	dia a di	
(Please	attach com	of a map or	sketch show	ing well loca	tion relative			
to street	s or other r	najor landma	rks.)					
(3) NA	ME OF W	ELL DRILI	LING CON	TRACTOR	l:	A A		
(4) PUI	RPOSE FO	OR DESTRO	YING WE	a.r.		I hereby agree to comply with a		
Water O	uality ()	Physical	()			San Gabriel Basin Waterma		
Other ()	1 11 9 13 10 11	/			construction, operation, repair,		
	RRENT U	SE:					olicant will notify the	
Municip		Irrigation ()			Watermaster upon completion of		
Domesti		Industrial (
	uality Clea		,					
Other (nap ()				Submitted for Applicant by:		
(6) EXI	STINGC	ASING INS	TALLED:			The state of the s		
	() PLAS			el Packed:				
OTHER	() 12/11	3110()			lian.	* The state of the		
OTTILIC	()		1 68 ()No()S	126			
From T	o	Gage	Diam of			Signature:		
ft. f	t. Diam.	Wall	Bor	e ft.	ft.	Dignature.		
			-			Title:		
Cina of a	hoe or well]						
		ring:				Date:		
Describe	joint							
(7) EXI Type of 1	STING PI perforation	ERFORATION or size of screen	ONS OR Se	CREEN:		Date Received by Watermaster:_		
	ř	Perf.	Rows	ř		Watermaster Action:		
From	То	per	per	Slot			, ,	
ft.	ft.	row	ft.	Size		Approved () Denied (()	
						Date of Action:		
8) CON	STRUCT	TON:				Permit Number:	11/	
		ary seal provid	dad? Van (No ()				
Fo what	depth?	ny scar provid	ica; ics ()140 ()		By:		
Were any	v strata seal	ed against po	Ilution? Ves	() No ()		(Name)		
f ves. no	te depth of	etrata	nunonii i es	()140 ()		(Ivame)		
rom	no dopin or	ft. to		Q				
rom		ft. to				(Title)		
Aethod o	of sealing			It.				
9) WFI	LLOG- (Please provi	ide a convi	of well los)			
otal den	ייייייייייייייייייייייייייייייייייייי	ft. Depth of c	nue a copy (or well log.) 			
ormatio	n' Dosavih	_11. Depth of 6 e by color, ch	ompietea W	of material	11,			
tructure	if well las	e by color, cn cannot be pro	urucier, Stze widad	oj material	una			
	y well log		riueu.	r.				

WELL LOCATION SKETCH

NORTH BOUNDAR	Y OF SECTION	
NW 1/4	NE 1/4	1/2 MILE
SW 1/4	SE 1/4	1/2 MILE
1/2 MILE	1/2 MILE	

Township	N/S
Range	E/W
Section No.	

A. Location of well in sectionized areas. Sketch roads, railroads, streams, or other features as necessary.

	NORTH	
1	l	
1		
WEST		EAST
1		
	SOUTH	

B. Location of well in areas not sectionized. Sketch roads, railroads, streams, or other features as necessary. Indicate distances. Mailing Address: 725 North Azusa Ave. Azusa, CA 91702

(9) INITAIL START-UP DATE:

MAIN SAN GABRIEL BASIN WATERMASTER SUPERIOR COURT CASE NO. 924128-LOS ANGELES COUNTY

APPLICATION FOR WATER TREATMENT FACILITY

(1) APPLICANT:	(10) EVEROPE OPER LERIO COUEDIN E
Name	(10) EXPECTED OPERATING SCHEDULE:
Address	(A) Daily schedule
(A) I ACTUAL OF MALL TON COME A CIT LOST	(B) Number of days each month (Please specify if operating schedule
(2) LOCATION OF TREATMENT FACILITY:	varies month-to-month)
Address	
Thomas Brothers Guide (Please indicate year, page number and	
coordinates.)	(11) EXPECTED COSTS
	(A) Capital cost:\$
(Please include a map showing the location of the treatment facility	(B) Operation and maintenance:\$ /AF.
relative to streets, buildings, water system facilities and other points	(12) REGULATORY PERMITS: Please describe all necessar
of reference.)	permits and/or all permits for which you have applied or have
(3) (A) NAME OF WATER TREATMENT FACILITY	received from all regulatory agencies with regard to the propose
CONTRACTOR:	treatment facility. Please supply to Watermaster, copies of al
(B) NAME OF DESIGN ENGINEER AND STATE	environmental documents required under the Californi
REGISTRATION NUMBER:	Environmental Quality Act and/or the National Environmental
(4) PROPOSED ACTION AT TREATMENT FACILITY	
	Protection Act.
Construction () Modification () Removal ()	(13) Applicant acknowledges it will comply with all portions of
Destruction () Other ()	Section 28 of Watermaster's Rules and Regulations pertaining to
(5) DESCRIPTION OF FACILITY:	quarterly data submittal, for treatment plant operation, to
(A) Type of treatment:	Watermaster. Specifically, at least the following data shall b
Volatile Organic Chemical () Nitrate () Other ()	provided on a quarterly basis:
(B) Please describe the treatment process to be used at the proposed	 Name or other designation of treatment facility;
treatment plant.	 Quantity of water treated during quarter;
	 Quantity of each contaminant removed;
	Quality of water before treatment, at beginning and end of
(C) Please list, by Owner Designation, all wells to be treated:	each quarter;
(c) I lease hat, by Owner Designation, all wells to be treated.	 Quality of water after treatment, at beginning and end of
	each quarter; and
	 Operation and maintenance costs for each quarter.
	(14) Please provide Watermaster with copies of all feasibility studies
(6) ANTICIPATED TREATMENT FACILITY CAPACITY:	alternative water supply sources, water quality studies or other
Gallons Per Minute	reports which validate the Applicant's need to install a water
Acre-feet Per Year	treatment facility.
(7) EXPECTED CONCENTRATION OF CONTAMINANTS:	
Contaminant	Applicant must provide supporting data to show compliance with the
Influent Effluent Remoyal	requirements of Section 28 with particular reference to Section 28(1
Concentration Concentration Rate	of Watermaster's Rules and Regulations.
Contaminant (Parts per Billion) (Parts per Billion) (Percent)	
	I hereby agree to comply with all regulations of the Main San Gabrie
Trichloroethylene	Basin Watermaster pertaining to treatment plant construction
(TCE)	operation, repair, modification, destruction and inactivation.
Tetrachloroethylene	G 1 14 10 A 11 AFRICA
(PCE)	Submitted for Applicant by:
1,1,1-Trichloroethane	Signature:
(1,I,1-TCA)	orginature.
Carbon Tetrachloride	Title:
(CTC)	7.97702#
1,1-Dichloroethylene	Date:
(LI-DOD)	
	Date Received by Watermaster:
1,1-Dichloroethane	
1,1-Dichloroethane (1,1-DCA)	Watermaster Action:
1,1-Dichloroethane (1,1-DCA) 1,2-Dichloroethane	Watermaster Action: Approved () Denied ()
1,1-Dichloroethane (1,1-DCA)	Watermaster Action: Approved () Denied () Date of Action:
1,1-Dichloroethane (1,1-DCA) 1,2-Dichloroethane	Watermaster Action: Approved () Denied () Date of Action:
1,1-Dichloroethane (1,1-DCA) 1,2-Dichloroethane (1,2-DCA)	Watermaster Action: Approved () Denied () Date of Action: Permit Number:
1,1-Dichloroethane (1,1-DCA) 1,2-Dichloroethane (1,2-DCA) Others:	Watermaster Action: Approved () Denied () Date of Action: Permit Number: By:
1,1-Dichloroethane (1,1-DCA) 1,2-Dichloroethane (1,2-DCA)	Watermaster Action: Approved () Denied () Date of Action: Permit Number:
1,1-Dichloroethane (1,1-DCA) 1,2-Dichloroethane (1,2-DCA) Others: (8) DISPOSITION OF ALL TREATED WATER:	Watermaster Action: Approved () Denied () Date of Action: Permit Number: By: (Name)
1,1-Dichloroethane (1,1-DCA) 1,2-Dichloroethane (1,2-DCA) Others:	Watermaster Action: Approved () Denied () Date of Action: Permit Number: By:

WELL LOCATION SKETCH

NORTH BOUNDAR	Y OF SECTION	
NW 1/4	NE 1/4	1/2 MILE
SW 1/4	SE 1/4	1/2 MILE
1/2 MILE	1/2 MILE	

Township N/S
Range E/W
Section No.

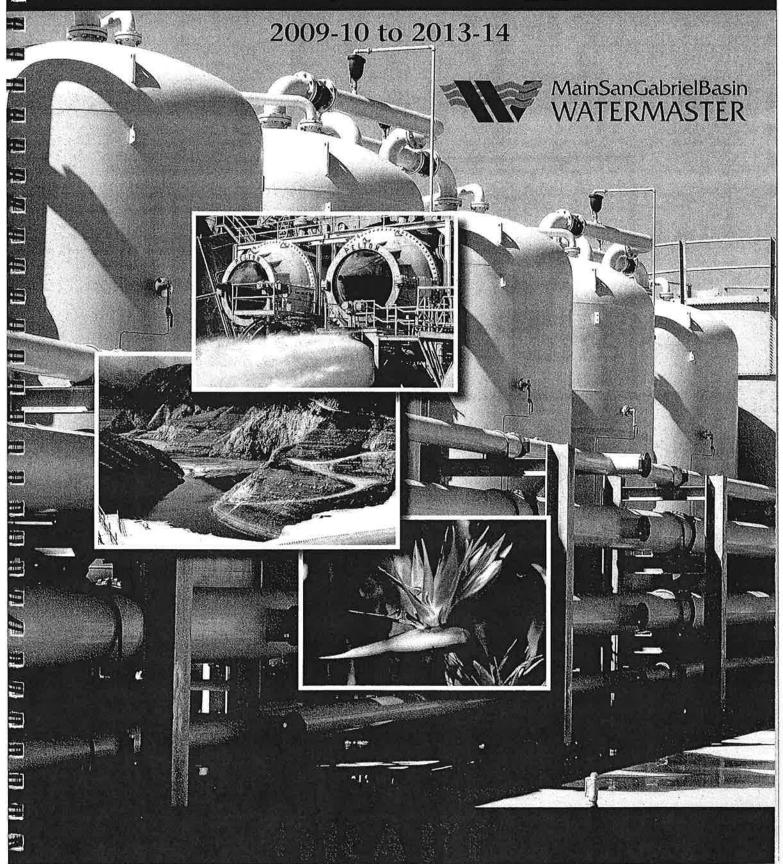
A. Location of well in sectionized areas. Sketch roads, railroads, streams, or other features as necessary.

	NORTH	
WEST		EAST
	SOUTH	12

B. Location of well in areas not sectionized. Sketch roads, railroads, streams, or other features as necessary. Indicate distances.

APPENDIX F Five-Year Water Quality and Supply Plan

Five-Year Water Quality and Supply Plan



Five-Year Water Quality and Supply Plan

November 2009



Telephone (626) 815-1300 • Fax (626) 815-1303 725 North Azusa Avenue • Azusa, California 91702 www.watermaster.org

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INTRODUCTION

Watermaster prepares and annually updates this Five-Year Water Quality and Supply Plan (Five-Year Plan) in accordance with the requirements of Section 28 of its Rules and Regulations. The objective is to coordinate groundwater-related activities so that both water supply and water quality in the Main San Gabriel Basin (Basin) are protected and improved.

PURPOSE OF THE FIVE-YEAR PLAN

Many important issues are detailed in the Five-Year Plan, including how Watermaster plans to:

- 1. monitor groundwater supply and quality;
- 2. develop projections of future groundwater supply and quality;
- 3. ensure adequate supplemental water is available for groundwater replenishment
- 4. review and cooperate on cleanup projects, and provide technical assistance to other agencies;
- 5. assure that pumping does not lead to further degradation of water quality in the Basin;
- 6. address emerging contaminants in the Basin;
- 7. develop a cleanup and water supply program consistent with the U.S. Environmental Protection Agency (USEPA) plans for its San Gabriel Basin Superfund sites; and
- 8. coordinate and manage the design, permitting, construction, and performance evaluation of the Baldwin Park Operable Unit (BPOU) cleanup and water supply plan.

WATERMASTER BACKGROUND

The Los Angeles County Superior Court created the Main San Gabriel Basin Watermaster in 1973 to resolve water issues that had arisen among water users in the San Gabriel Valley. Watermaster's mission was to generally manage the water supply of the Main San Gabriel Groundwater Basin.

During the late 1970s and early 1980s, significant groundwater contamination was discovered in the Basin. The contamination was caused in part by past practices of local industries that had inappropriately disposed of industrial solvents, as well as by agricultural operations that infiltrated nitrates into the groundwater. Cleanup efforts for industrial contamination were undertaken at the local, state, and federal levels.

WATERMASTER RECEIVES WATER QUALITY RESPONSIBILITIES

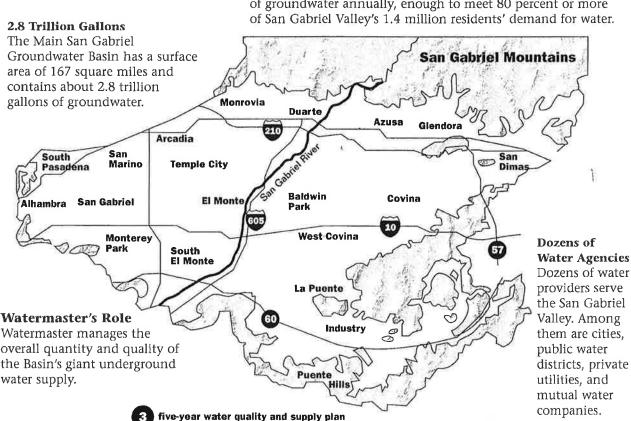
By 1989, local water agencies adopted a joint resolution regarding water quality issues that stated that Watermaster should coordinate local activities aimed at preserving and restoring the quality of groundwater in the Basin. The joint resolution also called for a cleanup plan.

In 1991, the Los Angeles County Superior Court granted Watermaster the authority to control pumping for water quality purposes. Accordingly, Watermaster added Section 28 to its Rules and Regulations regarding water quality management. The new responsibilities included: developing this Five-Year Water Quality and Supply Plan; updating it annually, and submitting it to the California Regional Water Quality Control Board, Los Angeles Region (Regional Board); and making it available for public review by November 1 of each year.

Figure 1. AREA COVERED BY MAIN SAN GABRIEL BASIN

Precious Underground Water Supply

The Main San Gabriel Basin provides up to 90 billion gallons of groundwater annually, enough to meet 80 percent or more



CURRENT WATER SUPPLY CONDITIONS

Rainfall in the San Gabriel Valley averaged about 14 inches during 2008-09, or about 76 percent of the long-term average. As a result of the below average rainfall, the groundwater level decreased by about seven feet during fiscal year 2008-09.

WATER SUPPLY INFLOWS DURING 2008-09

VALLEY RECEIVES BELOW AVERAGE RAINFALL

In 2008-09, the San Gabriel Valley received about 14 inches of rain, which is about 76 percent of the long-term average of 18.52 inches.

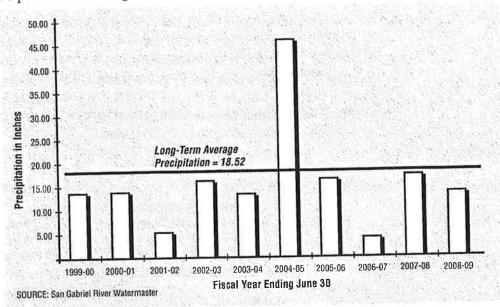


Figure 2. AVERAGE RAINFALL DURING THE LAST TEN YEARS Rainfall in 2008-09 was about 14 inches. Average precipitation in the Main San Gabriel Basin for the 10-year period from 1999-00 to 2008-09 was 16.7 inches. The long-term average rainfall is 18.52 inches. The rainfall total is made up of an average taken from four stations located in San Dimas, Diamond Bar, El Monte, and Pasadena.

LOCAL STORMWATER CAPTURE 30 PERCENT OF AVERAGE

During fiscal year 2008-09 rainfall was about 76 percent of normal and contributed to runoff of about 70,000 acre-feet, which is about 67 percent of normal. Fiscal year 2008-09 represents the fourth consecutive year of below average rainfall and the third consecutive year of below average storm water runoff. As a result, conservation of local storm runoff between 2006-07 and 2008-09 totaled about 150,000 acre-feet, while the long-term average would have represented about 315,000 acre-feet. The deficit of about 165,000 acre-feet (315,000 - 150,000) represents about 21 feet of groundwater elevation at the Baldwin Park Key Well. Had rainfall and local storm runoff been near normal, the Baldwin Park Key Well groundwater level as of June 30, 2009 could have been about 21 feet higher or about elevation 216 feet instead of the recorded elevation of about 195 feet.

BASIN DEMANDS BELOW AVERAGE

The total Main San Gabriel Basin water demand consists of groundwater production, treated local runoff, and treated imported water deliveries. During fiscal year 2008-09 total water demand was about 272,000 acre-feet consisting of about 236,800 acre-feet of groundwater production, 13,700 acre-feet of treated local surface water and 21,500 acre-feet of treated imported water. The total quantity is about 6 percent lower than the 10-year average of about 290,000 acre-feet despite having below average rainfall in 2008-09, which would tend to increase water demands. The reduction is a result of Watermaster's and others' efforts to promote and encourage water conservation. The Main San Gabriel Basin Watermaster annually establishes an Operating Safe Yield, which is based on prevailing hydrologic conditions in the San Gabriel Valley. Production in excess of the Operating Safe Yield is subject to an assessment used to purchase untreated imported water to replenish the Main San Gabriel Basin. Overproduction during fiscal year 2008-09 was 58,100 acre-feet, which is above the 10-year average of 43,900 acre-feet. Untreated replenishment water deliveries have not been made available by the Metropolitan Water District of Southern California (MWD) since May 2007. The lack of replenishment water combined with dry conditions created historic low water levels even with reduced production due to conservation efforts.

KEY WELL BELOW OPERATING RANGE

The Baldwin Park Key Well is used as the benchmark for determining the groundwater level for the entire Basin. Pursuant to the Judgment, Watermaster works to keep the Key Well water level between 200 feet and 250 feet to the extent possible. Below average rainfall over the past four years, coupled with below average storm runoff contributed to the Baldwin Park Key Well water level falling from about 248.4 feet in June 2005 to 195.6 feet in June 2009. The below average rainfall of 14 inches during 2008-09 contributed to the continued decrease in the groundwater elevation at the Key Well to about 195.6 feet as of June 30, 2009, which is 4.4 feet below the bottom of the operating range.

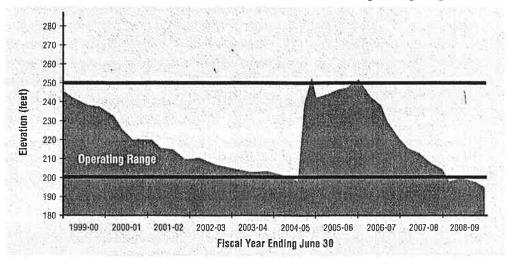


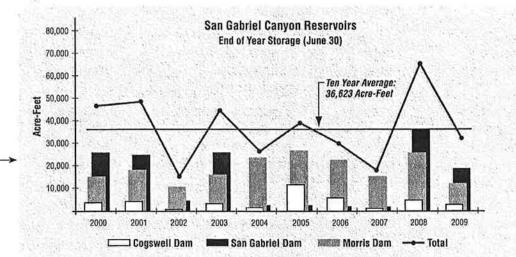
Figure 3. KEY WELL ELEVATIONS DURING THE LAST TEN YEARS The groundwater elevation at the Key Well on June 30, 2009 was about 195.6 feet, which is below the bottom of the Basin's operating range of 200 to 250 feet.

DECREASE IN WATER STORED IN CANYON RESERVOIRS

Cogswell, San Gabriel, and Morris Reservoirs have a combined maximum storage capacity of about 85,000 acre-feet. At the end of the 2008-09 fiscal year, about 31,800 acre-feet of water was stored in these reservoirs. This is a decrease from the previous year and represents about 87 percent of the 10-year average of about 36,600 acre-feet of water in storage at the end of the fiscal year. In addition, about 70,000 acre-feet of local runoff was released from storage in local reservoirs for recharge into the groundwater basin during fiscal year 2008-09.

Total water stored in San Gabriel Canyon reservoirs at the end of the fiscal year was 31,800 acre-feet and is 87 percent of the 10-year average.





BASIN REPLENISHMENT ACTIVITIES

Basin management continues to encourage producers to maximize groundwater production instead of relying on treated imported water. Under normal conditions Watermaster quantifies groundwater production in excess of Producers' water rights and arranges to have an equal amount of untreated imported water delivered to replenish the overproduction from the Basin. This practice takes advantage of historically lower cost water and allows water agencies to deliver untreated imported water on a flexible basis instead of requiring a continuous flow, as is the case of treated water demands. Currently, deliveries of untreated imported water for groundwater replenishment by MWD have been suspended. This suspension of deliveries has been in place since May 2007. MWD has indicated untreated imported water may be available in only three out to 10 years in the future. Watermaster is actively pursuing alternative means of Basin replenishment including:

- shifting groundwater production to treated imported water deliveries to reduce overproduction from the Basin;
- · encouraging reduced groundwater production through conservation efforts;

- securing alternative supplemental supplies including maximizing delivery of imported water from State Water Project contractors; and
- securing a firm supply of advanced treated recycled water.

PROJECTED GROUNDWATER DEMANDS

PRODUCER ESTIMATES

Section 28 requires that each Producer submit a report to Watermaster detailing its projected water supply and water production requirements over the following five years. Projections were received from 16 Producers, accounting for about 65 percent of the groundwater production from the Basin.

For those Producers who did not submit projections, Watermaster provided an estimate based on the assumption that each Producer had an aggregate projected growth rate that was the same as those Producers who did submit projections. Projected groundwater production is shown in Appendix A.

Figure 5 shows the total projected and historical groundwater production from the Basin since 2002-03.

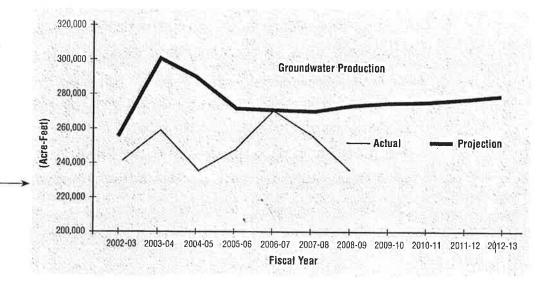


Figure 5. PROJECTED AND HISTORICAL WATER PRODUCTION Total groundwater production for the 2008-09 fiscal year from the Basin was 236,800 acre-feet, which is lower than the previous year's production of 253,000 acre-feet. The decrease in groundwater production is due partially to Basin-wide water conservation.

Groundwater production is influenced by a variety of conditions, including population, seasonal precipitation, groundwater contamination, and availability of surface water. Excluding the impacts of seasonal precipitation, groundwater production had been experiencing a gradual increase. The impacts of groundwater contamination since the 1980s had caused several water agencies to reduce groundwater production and temporarily increase reliance on treated imported water. In recent years, various groundwater production and treatment facilities have become operational, enabling water purveyors to resume use of groundwater.

Water production

year, due in part to Basinwide water

conservation efforts.

has decreased over the prior

CURRENT WATER QUALITY CONDITIONS

Groundwater delivered to customers continues to be of high quality and always meets state and federal drinking water standards. However, a number of contaminants in areas of the Basin require careful monitoring and treatment before the water is served for domestic use. These contaminants include a variety of industrial solvents referred to as volatile organic compounds, or VOCs. Another common contaminant found in the Basin is nitrate, primarily from fertilizers used during the Valley's agricultural period. Since 1997, additional contaminants have been detected: perchlorate, a solid rocket fuel ingredient; N-nitrosodimethylamine (NDMA), associated with liquid rocket fuel; 1,2,3-trichloropropane (1,2,3-TCP), a degreasing agent; and 1,4-dioxane, a stabilizer for chlorinated solvents.

In response to the detection of these contaminants, Watermaster and local water entities aggressively pursued construction of treatment facilities to control the spread of contaminants and continue providing high quality water to consumers. This policy of remediation and reuse both preserves a valuable resource and reduces the overall cost of groundwater cleanup. Initially, a number of VOC treatment facilities were constructed, while excessive nitrate concentrations were blended down to acceptable levels. Since the detection of perchlorate and NDMA, Watermaster has been instrumental in the successful operation of treatment facilities to treat VOCs, perchlorate, and NDMA.

While only present in limited parts of the Basin, these chemicals pose difficult challenges to water Producers. Watermaster responded vigorously by working closely with the local water community to sponsor research, as well as to design, fund, and construct cleanup projects ahead of the USEPA and the firms named as responsible for the contamination. Watermaster also led negotiations that resulted in the Baldwin Park Operable Unit (BPOU) Project Agreement, including an initial reimbursement for groundwater cleanup costs from certain parties responsible for the contamination. Under the agreement, Watermaster is responsible for overall project coordination and administration, groundwater monitoring, and compliance with USEPA reporting requirements. Watermaster also participates in decisions regarding technology selection, construction, and operations. Now that all of the BPOU treatment facilities are operational, Watermaster also monitors the BPOU project's performance in containing and removing contamination.

PRIMARY CONTAMINANTS IN THE GROUNDWATER BASIN

VOLATILE ORGANIC COMPOUNDS AND NITRATES

VOCs and nitrates are the most prevalent contaminants found in the Basin. Intensive monitoring and research concerning these two types of contaminants have been underway for many years. The location and cleanup methods for VOCs are generally well understood; during fiscal year 2008-09, 30 plants treated about 26 billion gallons of VOC-contaminated water. Water containing nitrates above the Maximum Contaminant Level (MCL) is either blended with other sources or not used.

Note in Figure 6 that although VOC contamination is substantial, it is centered in just a few areas, leaving a good portion of the Basin unaffected. The same is true for nitrates, which have the highest concentrations in the eastern portion of the Basin, away from the most productive pumping areas (see Figure 7).

PERCHLORATE

In January 2002, California Department of Public Health (CDPH), formerly the California Department of Health Services, lowered the Notification Level (NL) for perchlorate from 18 to 4 parts per billion, and a total of 22 wells were removed from service due to unacceptable levels of perchlorate. CDPH subsequently raised the NL to 6 parts per billion in March 2004 and later established an MCL of 6 parts per billion during October 2007. Watermaster played a key role in development of the first treatment technology to remove perchlorate from drinking water; ion exchange technology is now operational at five sites in the BPOU and at two facilities in other parts of the Basin.

Extensive cleanup programs are underway in the areas affected by VOC contamination. Because the main plumes of contamination are centered in just a few areas, much of the Basin remains unaffected.

Figure 6. VOLATILE ORGANIC COMPOUND LEVELS IN GROUNDWATER THROUGHOUT THE BASIN

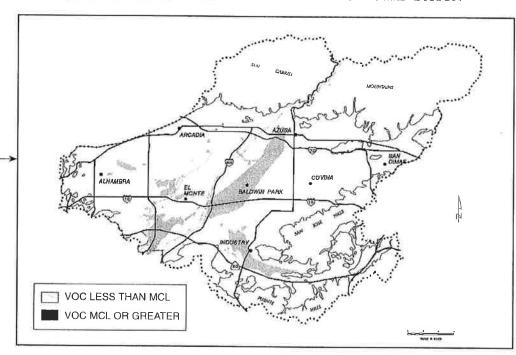
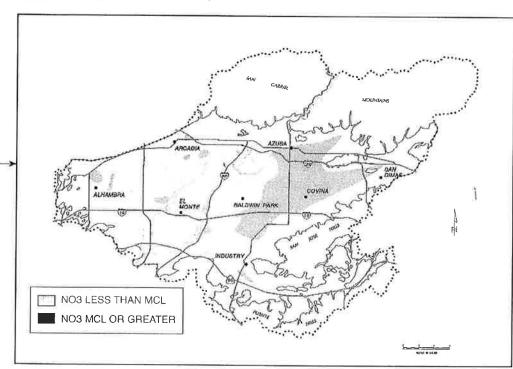


Figure 7. NITRATE LEVELS IN GROUNDWATER THROUGHOUT THE BASIN

Nitrate (NO3) contamination is highest in the eastern portion of the Basin, away from the San Gabriel River, the area of most intensive groundwater pumping.



NDMA

electrical Clusters

3236;

During 1998, eight local wells were found to contain levels of NDMA above the NL at that time of 2 parts per trillion. Five of the wells with measurable levels of NDMA had already been taken out of service for other reasons, and the other three were put on inactive status once NDMA was detected. CDPH subsequently raised the NL to 10 parts per trillion. As with perchlorate, Watermaster played a key role in the construction of NDMA treatment facilities in the BPOU area of the Basin. Five facilities were operational, during fiscal year 2008-09.

1,2,3-TRICHLOROPROPANE

The compound 1,2,3-trichloropropane is a degreasing agent that has been detected in the groundwater above the NL of 5 parts per trillion, primarily in the BPOU and the Area 3 OU. It was detected in the BPOU during the winter of 2006, and its presence delayed use of one treatment facility for potable purposes. Following detection, CDPH indicated the appropriate treatment technology is liquid phase granular activated carbon. Subsequently, Watermaster, in cooperation with its BPOU project partners, worked to construct treatment facilities to remove 1,2,3-TCP from the groundwater to make it suitable for potable uses. That treatment facility was operational during fiscal year 2008-09.

WELLS ASSESSED FOR VULNERABILITY TO CONTAMINATION

One of the primary purposes of the Five-Year Plan is to identify wells in the Basin that are vulnerable to contamination. A well is considered vulnerable if the concentration of contaminants reaches 50 percent of the NL or MCL allowed by state drinking water regulations. Watermaster reviews water quality tests performed on each well, regional water quality conditions, and contaminant migration patterns in an effort to project which wells may be vulnerable over the next five years and prepare plans to construct treatment facilities, as needed. (See Figures 8a, 8b and 8c in Appendix F).

Watermaster maintains a Water Quality Protection Plan that provides an early warning to Producers of potential increases in contaminant levels. The Water Quality Protection Plan also provides suggested alternative sources of supply, and proposes long-term actions to solve the contamination problem(s) without contributing to the migration of contaminants in the Basin.

FIVE-YEAR WATER QUALITY AND SUPPLY PLAN

The Main San Gabriel Basin's designation as a federal Superfund site was prompted by the discovery of widespread VOC contamination. Cleanup plans were developed to contain and remove VOCs from groundwater, and Watermaster, along with various other local water agencies, water producers and regulators, has worked to develop the expertise, financing and treatment technologies to effectively address Basinwide cleanup of VOCs.

Watermaster facilitates groundwater cleanup projects that also meet water supply needs. The discovery of perchlorate and NDMA, however, complicated the existing VOC cleanup approach by creating a number of challenges. Most important, these new contaminants could not be removed using existing treatment facilities, and new, additional treatment methods had to be identified, financed and implemented.

This report outlines a combined cleanup and water supply plan for each of
the USEPA Operable Units. Watermaster's plan for each area is consistent
with the USEPA plans, and its goal is to implement cleanup as promptly as
possible, with or without the cooperation of the Responsible Parties.

GROUNDWATER MONITORING PROGRAMS

Monitoring involves measuring groundwater levels, groundwater quality, and groundwater flow. Watermaster continuously refines its understanding of the groundwater Basin to increase the safe yield of the Basin, and to protect and improve local water quality.

GROUNDWATER ELEVATION MONITORING

CONTINUE KEY WELL AND SUPPLEMENTAL KEY WELL OPERATION AND DATA PROCESSING

The entire 167-square-mile groundwater Basin is managed as one unit based on the groundwater levels as measured at a single Key Well in Baldwin Park. Water levels have been measured at this well since 1903 and are currently measured every three hours by an automated recorder.

Additional groundwater level recorders have been installed near the Santa Fe Spreading Grounds; adjacent to the San Gabriel River above the I-210 Freeway; in the City of Rosemead; in the City of Covina; and near the Whittier Narrows Dam. These water level records are synchronized with the record in the Key Well. Collectively, water level data from these wells provide a better understanding of impacts of recharge operations at the Santa Fe Spreading Grounds on Basin hydrogeology. Water elevation data are collected semi-annually at about 170 additional wells throughout the Basin, and water level recorders may be installed in those wells over the next five years.

CONTINUE BASINWIDE GROUNDWATER ELEVATION MONITORING PROGRAM (BGWEMP)

The purpose of the BGWEMP is to obtain groundwater level measurements from a large number of wells across the Basin. The information is used to prepare groundwater contour maps showing the direction of groundwater flow. The data are also used in the Basin computer model to simulate future groundwater flow patterns. The BGWEMP plan for the coming years includes:

- taking weekly measurements of water levels in nine primary wells;
- gathering semi-annual measurements of water levels in 170 primary wells;
- obtaining water levels in secondary wells from well owners or water Producers, the San Gabriel Valley Protective Association, Regional Board, USEPA, and others;
- updating the database with water level data; and
- preparing semi-annual groundwater contour maps of the entire Basin.

GROUNDWATER QUALITY MONITORING

CONTINUE BASINWIDE GROUNDWATER QUALITY MONITORING PROGRAM (BGWQMP)

Under the BGWQMP, all production wells in the Basin are sampled at least once a year for VOCs and nitrates. The frequency of BGWQMP sampling complements the monitoring requirements under state law and supplements information gathered through Regional Water Quality Control Board source investigations and USEPA remedial investigations. The data collected by BGWQMP are used to identify and evaluate the current locations and magnitude of contaminant levels.

CONTINUE TITLE 22 WATER QUALITY TESTING

Watermaster continues to perform CDPH-mandated Title 22 water quality sampling of groundwater from approximately 200 active wells in the Basin. Watermaster also continues to track regulations and inform local water purveyors about regulatory issues and requirements. Information from centralized water quality testing is added to Watermaster's water quality database, which contains data from many sources. The centralized testing enables Watermaster to identify water quality trends on a regional scale that might otherwise go unnoticed at a specific well and also lowers monitoring costs to Producers.

GROUNDWATER FLOW AND CONTAMINANT MIGRATION STUDIES

Groundwater level and quality data are entered into the Basin computer model, which simulates where contamination is projected to flow in the future. The goal is to project contaminant levels by areas in advance of the actual event, and identify remedial steps to be taken.

GROUNDWATER ELEVATION SIMULATIONS SHOW FUTURE PUMPING WILL NOT SIGNIFICANTLY CHANGE GROUNDWATER MOVEMENT

To determine the direction of groundwater flow through the Basin, Watermaster compiles the daily average 2008-09 production for each well, enters the data into the groundwater model, and simulates how production impacts water levels throughout the Basin. A computer simulation is then run using estimated production for 2013-14. These simulations indicate that the estimated increase in groundwater production during the next five years will not significantly change the overall direction of Basin groundwater movement, which continues to flow generally from east to west to a pumping trough in the western portion of the Basin, and also northeast to southwest,

Simulations of the direction of ground-water flow in 2008-09 and projections for 2013-14 show that the estimated increase in ground-water pumping during this period would not significantly change the overall direction of Basin groundwater movement.

exiting through Whittier Narrows. The simulation for 2013-14 also shows localized pumping depressions in the Baldwin Park area, which are expected to be created by continuous pumping from groundwater extraction wells associated with the BPOU contaminant cleanup project to contain and control groundwater contaminant movement. Contaminated groundwater from those wells is treated at several treatment facilities and the CDPH-permitted water is provided for potable use.

SIMULATE IMPACTS OF GROUNDWATER PUMPING ON CONTAMINANT MIGRATION

Simulations similar to the ones described above were used to make the finding that pumping particularly from USEPA mandated cleanup projects and managed by Watermaster helps to control and contain contaminant migration.

Groundwater quality data collected during 2008-09 and projected quality data for >2013-14 were entered into the groundwater model for the contamination migration studies. The computer model is used to simulate how the flow of water would affect the migration of contamination. The simulation showed that changes in groundwater flow did not have major impacts on the migration of contaminants (refer to Figures 9 and 10 in Appendix G).

GROUNDWATER CLEANUP PROJECTS

Watermaster coordinates and provides technical assistance on many cleanup projects in the Basin, although the cleanup facilities are owned and operated by local water utilities. Watermaster's involvement includes coordinating proposed USEPA cleanup programs such that treated water is retained In the Basin to well water demands and providing assurance that projects are consistent with the Judgment.

REVIEW OF SECTION 28 APPLICATIONS

Watermaster reviews every proposal to construct, destroy, or modify a well or build a treatment plant pursuant to Section 28 of its Rules and Regulations.

Watermaster's review ensures that any new or increased extractions from the Basin or any changes in production patterns are consistent with contamination cleanup efforts and will not adversely affect Basin water quality. In conjunction with the evaluation of an application to construct a new well or a treatment facility, Watermaster uses a computer model to predict the potential future impacts of each project on contaminant migration and Basin cleanup.

BASIN CLEANUP PROJECTS/USEPA OPERABLE UNIT PLANS

With USEPA plans generally in place, Watermaster is working with others to ensure cleanup plans also address local water supply needs.

The USEPA established Operable Units for the various areas within the Basin that have been contaminated and require groundwater cleanup. The Operable Units are Area 3 (Alhambra area), Baldwin Park, Puente Valley, El Monte, South El Monte, and Whittier Narrows (See Figure 11). USEPA has established a methodical process that includes a review of the extent of contamination (Remedial Investigation), development of cleanup alternatives (Feasibility Study) and selection of the most appropriate cleanup plan (Proposed Plan). Following these activities, the USEPA issues a report identifying the agreed upon Cleanup Plan (Record of Decision). Subsequently, the project facilities are designed and constructed.

The USEPA has identified cleanup plans for nearly all the Operable Units. Unlike the USEPA, Watermaster is not only concerned with cleaning up the Basin, but also wants to ensure that the water supply needs of the region are met. With USEPA plans generally in place, Watermaster continues to work with affected Producers, Responsible ➤ Parties, and others to implement solutions that not only provide effective cleanup and conform to the USEPA plans, but also meet local water supply needs.

This Five-Year Plan describes each of the Operable Units along with the USEPA proposed cleanup plan. In addition, Appendix A identifies current and projected groundwater production to address the contamination and to implement the cleanup plans. Wells that pump to an existing or planned treatment facility are shown in bold.

In areas where the groundwater supply has been affected by contamination, Watermaster works with affected Producers and other local water agencies to implement cleanup as quickly as possible, with or without the cooperation of the Responsible Parties. Watermaster and affected Producers continue to seek cost recovery from the Responsible Parties for any cleanup costs they incur.

BALDWIN PARK OPERABLE UNIT (BPOU)

The BPOU is a seven-mile-long, one-mile-wide area of groundwater contamination that lies east of the San Gabriel River, stretching from an area north of the I-210 freeway in Azusa to south of the I-10 freeway in Baldwin Park (see Figure 12). The contamination has primarily resulted from improper use and disposal of industrial chemicals in the Azusa area, and it continues to spread generally in a southwesterly direction.

The USEPA originally issued its Record of Decision (ROD), or cleanup plan, for the BPOU in the mid-1990s. The ROD calls for pumping and treating groundwater in the northern area, where contaminant concentrations are highest, and also in the southern area to limit further migration of contaminants. The ROD involves pumping and treating an average of about 7,000 gallons per minute in the northern area and 16,000 gallons per minute in the southern area. The ROD also recommends the use of existing water supply wells, treatment systems, and pipelines when feasible. Importantly, the plan encourages adding the treated water to the potable supply, rather than simply recharging it back into the ground or disposing of it to storm drains.

Figure 11. LOCATION MAP OF USEPA OPERABLE UNITS

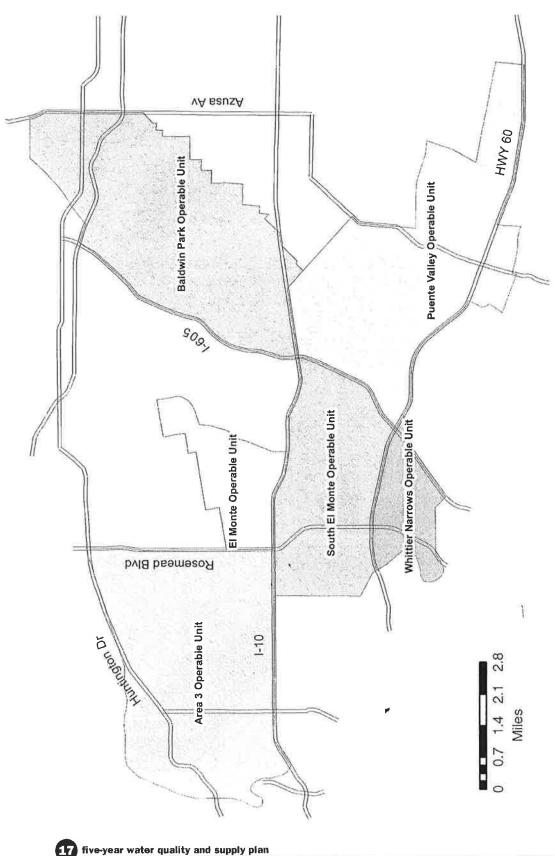


Figure 12. VOC PLUME MAP IN BPOU

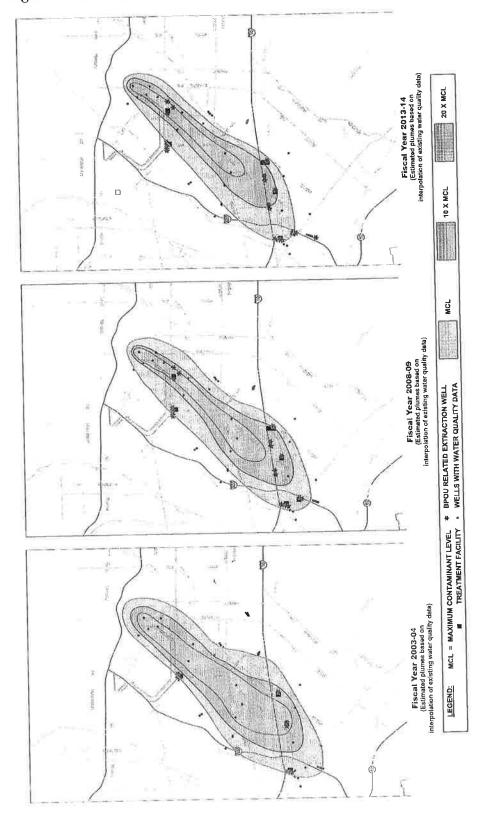
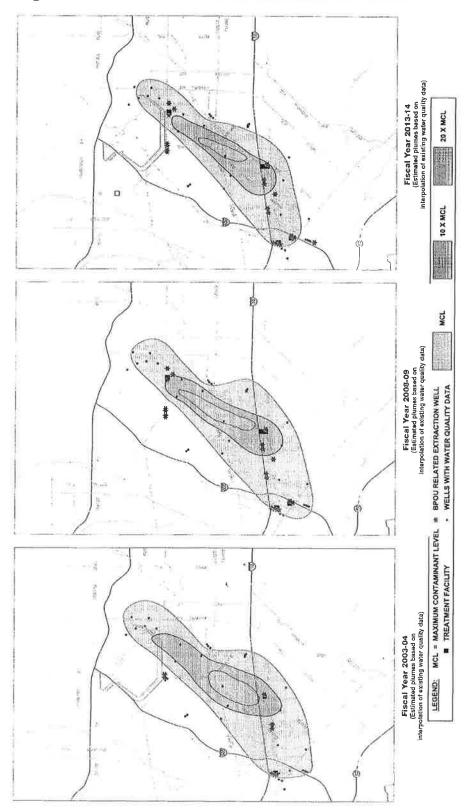


Figure 13. PERCHLORATE PLUME MAP IN BPOU



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Figure 14. LOCATION MAP OF BPOU

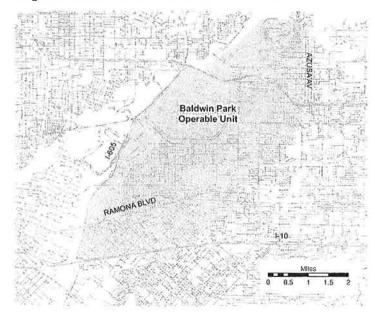


Figure 15. LOCATION MAP OF SEMOU



Figure 16. LOCATION MAP OF EMOU



Figure 17. LOCATION MAP OF PVOU

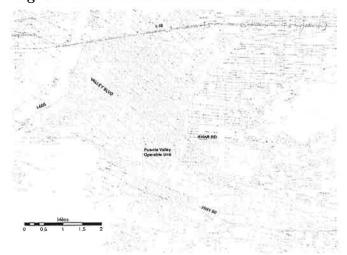


Figure 18. LOCATION MAP OF WNOU

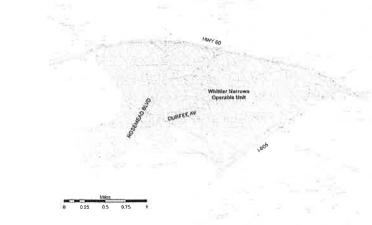
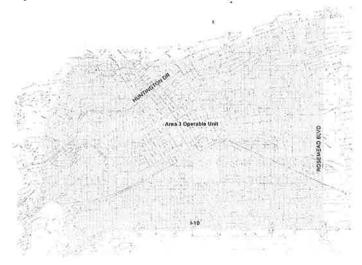


Figure 19. LOCATION MAP OF AREA 3



The discovery of perchlorate and NDMA during the late 1990s resulted in the shutdown of numerous treatment facilities, including the La Puente Valley County Water District (LPVCWD) Plant and San Gabriel Valley Water Company (SGVWC) Plant B6 that were designed by local water agencies to remove VOCs but not the new contaminants. Shutting down the VOC treatment plants allowed contaminants to migrate southward into previously unaffected areas, in turn forcing the shutdown of other water supply wells.

In 2002, after several years of negotiation led by Watermaster, eight of the BPOU Responsible Parties (called Cooperating Respondents, or CRs) and seven water entities signed the BPOU Project Agreement. Under this landmark agreement, Watermaster continues to provide overall project management and project coordination services. The CRs have paid the cost to construct and will provide funding to operate the USEPA-required BPOU cleanup facilities for about 15 years. Several water purveyors own and operate the facilities and use the highly treated water in their water systems. The San Gabriel Basin Water Quality Authority (WQA) has obtained outside funds to help construct necessary treatment facilities, extraction wells and pipelines.

The BPOU Project consists of four centralized treatment facilities with a combined extraction and treatment capacity of up to 25,900 gpm. Those treatment facilities are located at Valley County Water District's Lante Plant (7,800 gpm), San Gabriel Valley Water Company's Plant B6 (7,800 gpm) and Plant B5 (7,800 gpm), and La Puente Valley County Water District's (LPVCWD) site (2,500 gpm). The location of these treatment facilities is shown on Figure 12.

VCWD PROJECT

In the northerly portion of the BPOU, the VCWD Project consists of three extraction wells, including two new wells, pumping up to 7,800 gpm (average annual rate of 7,000 gpm) to a centralized treatment facility at the VCWD Lante Plant. The VCWD Project consists of separate facilities to treat VOCs, 1,2,3-TCP, perchlorate, NDMA, and 1,4-dioxane. In addition, a treated water pipeline provides up to 6,000 gpm of fully treated water to Suburban Water Systems (SWS) to offset production lost due to contamination of some of its wells; VCWD will use the remaining portion of the treated water. The VCWD Project began operation for contamination cleanup in 2006 and received its CDPH operating permit in July 2007 to provide potable water to customers, and is operational. Since operation began in 2006, the VCWD treatment facility has treated about 25,500 acre-feet and has removed about 14,100 pounds of contaminants.

VCWD and its BPOU partners are coordinating the construction of a new ion exchange facility that will remove perchlorate more cost effectively. Construction and startup testing of the new ion exchange facility is anticipated to be completed during fiscal year 2009-10 while the existing VCWD treatment facility continues to provide treated water for municipal use.

LPVCWD PROJECT

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The LPVCWD consists of three existing production wells. Well pumping capacity is limited to 2,500 gpm to equal the capacity of the treatment facility. The LPVCWD project consists of separate facilities to treat VOCs, perchlorate, NDMA and 1,4-dioxane. The LPVCWD project is permitted by CDPH and has been operating since March 2001. Treated water in excess of LPVCWD's needs is provided to SWS to enable the treatment facility to be operated on a continuous basis. Since operation began, the LPVCWD treatment facility has treated about 39,000 acre-feet (including prior operations with only VOC treatment) and removed about 7,900 pounds of contaminants.

During fiscal year 2008-09, LPVCWD constructed a new ion exchange facility that will remove perchlorate more cost effectively. The ion exchange facility operational testing, CDPH permitting and full scale operation for potable use is anticipated to occur during fiscal year 2009-2010.

SGVWC B6 PROJECT

The SGVWC B6 project is permitted by CDPH and has been operational since July 2005. The B6 project consists of four new extraction wells and a centralized treatment facility that treats up to 7,800 gpm (average annual rate of 7,000 gpm). The treatment facility treats the contaminated groundwater for VOCs, perchlorate, NDMA, and 1,4-dioxane. The treated water is provided to SGVWC customers. Since operation began, the SGVWC B6 treatment facility has treated about 61,000 acre-feet, (including prior operations with only VOC treatment), and removed about 9,100 pounds of contaminants.

The BPOU project partners are coordinating the construction of a new ion exchange facility, similar to the ones at the LPVCWD project and the VCWD Project. Construction of the new ion exchange facility began during fiscal year 2008-09 while the existing treatment facility continues to provide treated water for municipal use. Treatment facility operational testing, CDPH permitting and full scale operation for municipal use is anticipated to occur during fiscal year 2009-10.

SGVWC B5 PROJECT

The SGVWC B5 Project consists of one new extraction well along with two existing wells that will provide up to 7,800 gpm (average annual rate of 7,000 gpm) to a centralized treatment facility located at the SGVWC B5 site. The treatment facility will treat the contaminated water for VOCs, perchlorate, NDMA, and 1,4-dioxane. Following receipt of a permit from CDPH, the treated water will be provided to City of Industry customers (1,200 gpm) and the balance (6,600 gpm) provided to SGVWC customers. The SGVWC B5 Project was permitted by CDPH in fiscal year 2007-08. Since operation began in 2007 the SGVWC B5 treatment facility has treated about 18,700 acre-feet and has removed about 460 pounds of contaminants.

PURVEYOR PROJECTS

In addition to the USEPA-required BPOU facilities, several water purveyors have built treatment facilities at other wells within the BPOU area to meet water supply needs until the USEPA remedy prevents the continued spread of contamination. California Domestic Water Company (CDWC) has constructed facilities at its wellfield to remove VOCs, perchlorate and NDMA. Similarly, Watermaster has issued permits under its Section 28 to SWS to construct new wells that also are being used to blend with wells impacted by contaminants. These activities reduce reliance on expensive imported water and contribute to contaminant removal.

BPOU CLEANUP PROGRESS

Watermaster regularly reviews water quality data to evaluate the impact the production wells and specially constructed extraction wells have on control of contamination migration. It is difficult to develop a precise picture of the geographic extent of contamination because water quality is obtained from numerous wells that produce water from different depths below the groundwater table. Figure 12 shows the approximate geographic extent of VOC contamination and operating VOC treatment facilities from about five years ago, and from current data. In addition, the anticipated treatment facilities and the approximate geographic extent of VOC contamination, using engineering judgment, for five years in the future is also shown on Figure 12. The 2008-09 plume indicates the addition of supplemental treatment has enabled several VOC treatment facilities to resume operation, which has in turn, begun to control plume movement. It also indicates that, as a result of below average groundwater replenishment, groundwater flow has shifted VOC contamination to the west in the northwesterly portion of the plume. In the future, Watermaster anticipates the area of the VOC plume will begin to decrease, as shown on the 2013-14 plume. Similarly, Figure 13 shows the approximate geographic extent of perchlorate. The series of three plume characterizations and facility indicators show that in 2003-04 treatment existed at only one site. With the construction and operation of treatment facilities (2008-09), plume movement is expected to be controlled and, similar to VOCs, begin to decrease in the future (2013-14).

Watermaster will continue to coordinate BPOU cleanup activities among the various parties to the BPOU Project Agreement over the next 10 years, including interfacing with USEPA, overseeing agreements between water purveyors to use the treated water, and providing accounting services to track BPOU Project costs and funds received. With all of the BPOU facilities now operational, Watermaster is also coordinating collection of field data, such as water production, water quality and water levels, and is providing BPOU Project performance reports to USEPA in cooperation with the CRs.

The projects will ensure that there is an adequate water supply for the BPOU area. These projects are consistent with the USEPA ROD, meet contaminant removal and containment requirements, and meet local water supply needs.

SOUTH EL MONTE OPERABLE UNIT

The South El Monte Operable Unit (SEMOU) covers approximately eight square miles in the south-central portion of the Basin. It is bounded by the I-10 Freeway, the 60 Freeway, the I-605 Freeway, and San Gabriel Boulevard. (See Figure 11). A ROD for the SEMOU was issued in 2000 addressing VOC contamination in a limited area. Subsequently, additional water supply wells became contaminated and new contaminants, including perchlorate, were detected in wells in the SEMOU area. In November 2005, USEPA revisited its ROD and issued an Explanation of Significant Differences (ESD) indicating that SEMOU cleanup projects would also address treatment of perchlorate. Since a perchlorate source has not yet been identified in that area, the Responsible Parties (RPs) objected to a requirement to pay for perchlorate treatment, and negotiations for the RPs to fund SEMOU groundwater cleanup activities have been moving slowly.

In the meantime, area water purveyors who were impacted by contaminant migration and new perchlorate detections were forced to construct new or additional treatment facilities to maintain safe, reliable water supplies. The City of Monterey Park, San Gabriel Valley Water Company, and Golden State Water Company (GSWC) have all constructed new or additional treatment facilities within SEMOU. The San Gabriel Basin Water Quality Authority (WQA) has assisted these Producers by providing outside funding to help offset project costs.

Monterey Park Project. Monterey Park constructed a water treatment facility at its Delta Plant to treat VOCs and perchlorate. Monterey Park Well No. 9 (which only had detectable concentrations of VOC) began operating through the VOC treatment facility in April 2002. Following construction and permitting of the perchlorate treatment facility, Monterey Park Well No. 12 began operation in spring 2005. Monterey Park began operation of Well No. 15 in summer 2006. Future production primarily will be from Monterey Park Wells No. 12 and No. 15 to operate consistent with the SEMOU ROD. Watermaster and Monterey Park maintain data on water quality in monitoring wells located upgradient of Wells No. 9, 12, and 15. Since the treatment facility began operation, over 27,200 acre-feet of water has been treated and about 3,500 pounds of contaminants removed from the groundwater.

SAN GABRIEL VALLEY WATER COMPANY (SGVWC) PLANT 8 PROJECT. SGVWC Plant 8 VOC Treatment Facility has a capacity of 5,000 gpm and has been in operation since fiscal year 2001-02. In response to increasing VOC concentrations, SGVWC voluntarily constructed supplemental VOC treatment at Plant 8. The supplemental VOC treatment facility was permitted by CDPH in September 2006 and went on line in December 2006. Since the original VOC treatment facility operation, over 22,500 acre-feet of water has been treated and about 2,000 pounds of contaminants have been removed from the groundwater.

GOLDEN STATE WATER COMPANY (GSWC) PROJECT. GSWC VOC treatment facility at San Gabriel Wells No. 1 and 2 had been permitted and operating. However, with the establishment of the revised Perchlorate NL in 2002, GSWC voluntarily removed the wells from operation. Subsequently, GSWC installed an ion exchange system to remove perchlorate and has resumed operation at its San Gabriel Well No. 1. The treatment facility has treated about 6,700 acre-feet of water and removed about 290 pounds of contaminants.

EL MONTE OPERABLE UNIT

The El Monte Operable Unit (EMOU) covers an area of about 10 square miles in the south-central portion of the Basin. It is bounded by the I-10 Freeway in the south, Rosemead Boulevard in the west, and Santa Anita Avenue and Rio Hondo on the east. The northern boundary generally follows Lower Azusa Road (see Figure 11). While shallow contamination is found throughout the EMOU, deep (intermediate zone) contamination is found in the northwest and easterly area of the EMOU.

The USEPA's ROD for the EMOU includes numerous small, shallow extraction wells and treatment, along with two areas of deep extraction and treatment. Due to generally poor water quality in the area, the shallow groundwater will not be used for a potable supply. The deep extractions are recommended for potable use by local water purveyors. The remediation efforts are separated into "Westside" and "Eastside" activities.

WESTSIDE PROJECTS. On the Westside there are plans for cleanup contaminants occurring in the shallow aquifer. Watermaster is coordinating with the Westside entities to address the disposition of the treated water. The deep zone extraction and treatment in the northwest area is being accomplished by the existing Encinita Wellfield and Treatment Facility owned by GSWC, which began operation during 1998. During July 2002, USEPA issued an Explanation of Significant Differences (ESD), which indicated that perchlorate, NDMA, 1,4-dioxane, and hexavalent chromium had been detected in excess of CDPH notification levels. In the event water from extraction wells cannot be blended to acceptable levels, additional treatment facilities will need to be installed, significantly increasing cleanup costs. Thus far, extraction and treatment of VOCs at GSWC Encinita Plant have not been impacted.

EASTSIDE PROJECTS. The remediation on the Eastside will also involve cleanup of contaminants in the shallow aquifer. Final disposition of the water has not yet been determined and is still being coordinated by the Watermaster. The VOC contamination in the deep aquifer is anticipated to be produced from three wells and the fully treated water will be provided to the City of El Monte. Watermaster will continue to assist with data collection and permitting of facilities over the next five years.

PUENTE VALLEY OPERABLE UNIT

The Puente Valley Operable Unit (PVOU) lies in the southeastern portion of the Basin, essentially bounded by the 60 Freeway in the south, Azusa Avenue in the east, and the I-10 Freeway in the north (see Figure 11). The PVOU encompasses the Puente Valley, which is tributary to the southeasterly portion of the Basin. Contamination in the PVOU includes various VOCs. All aquifers within the PVOU (shallow, intermediate, and deep) are considered sources for municipal water supplies. The USEPA has issued a ROD for the PVOU. The plan identified in the ROD includes extraction and treatment of groundwater within the shallow and intermediate zones from wells located in the center of the PVOU.

Shallow Zone Project. The cleanup plan for shallow zone contamination includes nine wells that will collectively produce about 1,000 gpm. Due to the poor quality of shallow zone water (which is high in naturally-occurring dissolved solids), the water will not be used as drinking water, but will instead be treated to remove VOCs and will then be recharged back into the Basin. Watermaster is currently working with USEPA, Carrier Corporation and the Responsible Party to develop an agreement to allow production and discharge of the PVOU shallow zone water. The shallow zone project is currently anticipated to be operational during fiscal year 2010-11.

INTERMEDIATE ZONE. The proposed location of the intermediate zone treatment facility is also shown on Figure 17. Watermaster is working with USEPA, PRPs and local water entities to develop a cleanup solution that meets potable water supply needs. Approximately 1,000 gpm will be produced from the intermediate zone extraction wells, treated and used for potable purposes by a local water purveyor. The intermediate zone project is currently anticipated to be operational during fiscal year 2010-11.

WHITTIER NARROWS OPERABLE UNIT

The USEPA has declared that the WNOU is a "fund-lead" project, meaning that the USEPA (with the state) has funded the design, construction, and operation of the remedy and will seek cost recovery from Responsible Parties later. The USEPA cleanup plan involves a series of shallow and intermediate zone extraction wells with treatment. The total extractions are estimated to be about 11,000 gallons per minute (5,000 gpm shallow and 6,000 gpm intermediate zone).

INTERMEDIATE ZONE PROJECT. The City of Whittier has obtained a CDPH permit to use the 6,000 gpm of treated intermediate zone water for municipal use instead of producing water from its existing wells. Since production began in late 2005, about 16,500 acre-feet of groundwater has been treated and about 750 pounds of contaminants removed.

SHALLOW ZONE PROJECT. During fiscal year 2002-03 NDMA was detected in some of the shallow extraction wells, prolonging the testing and review process for the shallow zone water through June 2007. Studies indicate the shallow zone contamination could be adequately contained at an extraction rate of 2,500 gpm. The production agreement between USEPA and Watermaster to pump and discharge shallow zone water expired as of June 30, 2007, and further shallow zone treatment was temporarily suspended while the parties worked to determine an acceptable and appropriate long-term use of the water. Following several meetings, Watermaster entered into a production agreement with USEPA and the County of Los Angeles. Treated shallow zone water is being discharged to Legg Lake. A portion of the treated water is reported by the County of Los Angeles to Watermaster as production and the balance of the treated water will flow out of Legg Lake and percolate into the Basin. The shallow zone wells resumed operation in March 2008.

Since production began at the WNOU facility, over 23,000 acre-feet of groundwater has been treated, and over 1,600 pounds of contaminants have been removed.

AREA 3 OPERABLE UNIT

The Area 3 Operable Unit is located in the westerly portion of the Basin. It is generally bounded on the south by the I-10 Freeway, on the east by Rosemead Boulevard, on the North by Huntington Drive and on the west by the boundary of the Main Basin (see Figure 11). USEPA has installed five monitoring wells to collect water quality data to supplement data collected from water supply wells and has initiated a Remedial Investigation and Feasibility Study to identify the extent of the contamination and to evaluate appropriate cleanup remedies. In addition, Watermaster issued a permit during 2005-06 to the City of Alhambra to construct a treatment facility to remove VOCs from wells No. 7, 8, 11 and 12. The treatment facility became operational in April 2009 prior to USEPA's development of a final remedy but is necessary for Alhambra to receive a reliable source of supply from the groundwater basin.

PRODUCERS' WATER SUPPLY PLANS

Watermaster's Water Quality Protection Plan provides early warning to Producers before their wells are found to exceed drinking water quality standards. The Plan also contains pre-analyzed suggestions to the Producers for responding to the presence of contaminants.

WATER SUPPLY PLANS TO MEET PROJECTED DEMANDS

Water Producers propose to construct 10 new wells and build 4 treatment plants during the next five years. Watermaster will continue providing the following services to assist Producers in meeting water demand:

- investigate all new or increased water extractions;
- provide computer modeling and technical support on treatment issues concerning the impact of extractions on contaminant migration;
- prioritize areas requiring further investigation, and coordinate with Producers on water supply modifications; and
- · direct changes in pumping or treatment as necessary.

CONDUCT STUDIES, MONITORING AND INVESTIGATIONS

The Main San Gabriel Groundwater Basin is very complex, covering 167 square miles and holding about 2.8 trillion gallons of water. Water enters the Basin from countless natural and man-made locations, and is extracted from over 200 wells operated by dozens of independent Producers. Watermaster conducts special studies to identify projected water demands and to increase understanding of the Basin, so that it can be managed in a way that preserves and improves its water supply and quality. In addition, Watermaster routinely reviews available data and is prepared to construct new monitoring wells to obtain supplemental water level and water quality data to better manage the Basin.

LANDFILL INSPECTIONS

Watermaster routinely conducts on-site inspections of area landfills to ensure they are operated in a way that does not allow contaminants to seep into the groundwater. Watermaster reports any violations of Waste Discharge Requirements to the Regional Water Quality Control Board for enforcement.

IDENTIFY AND REDUCE POTENTIAL SOURCES OF CONTAMINATION

COOPERATE WITH THE REGIONAL WATER QUALITY CONTROL BOARD

Since 1993, Watermaster has obtained information from the Regional Board about sources of VOC contamination in the Basin as part of the Regional Board investigations of potential contaminated sites. The information includes a description of all potential sources of contamination investigated by the Regional Board, including:

- maps showing the location of all investigation sites;
- available cause-and-effect relationships between pollution sources and contaminated wells; and
- plans and tentative schedules to abate the source of pollution and to clean up the soil and water.

Watermaster has reviewed a large amount of information gathered in Regional Board files and entered it into a database. This information is used in Watermaster's Section 28 process to help evaluate changes in pumping practices in relation to known contamination sources.

AQUIFER PERFORMANCE TESTS

Watermaster has developed a groundwater flow model for the entire Basin that assists in evaluating the potential impacts of changes in groundwater production.

Although Watermaster completed its three-year Aquifer Performance Test investigation, additional tests will be conducted as required for Section 28 applications or for other needs. A tabulation of potential Aquifer Performance Test investigation sites is included in Appendix D. The sites identified include a pumping well and at least one monitoring well. The tests provide information on the characteristics of the aquifer, such as transmissivity, hydraulic conductivity, and coefficient of storage. The information gathered on aquifer characteristics will support cleanup activities including groundwater model development and calibration (see Appendix D).

DIRECTORY TO APPENDICES

The Following Appendices Are Found in This Section:

- A. Projected Groundwater Demands from 2009-10 to 2013-14
- B. Simulated Changes in Groundwater Elevations at Wells or Wellfields in Main San Gabriel Basin
- C. Highlights of Volatile Organic Compounds and Nitrate Concentrations and Wells Vulnerable to Contamination
- D. Potential Sites for Aquifer Performance Tests
- E. Summary of Treatment Facility Activity in the Main San Gabriel Basin
- F. Maps Showing Wells Vulnerable to VOC, Nitrate and Perchlorate Contamination Within Five Years (Figures 8a, 8b, and 8c)
- G. Simulated Basin Groundwater Contours 2008-09 and 2013-14 (Figures 9 and 10)

APPENDIX A.

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PROJECTED GROUNDWATER DEMANDS FROM 2009-10 to 2013-14

APPENDIX A
PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

ADMAS RANCH MUTUAL WATER COMPANY 1902/106	RECORDATION	WELL	WELL CAPACITY		2008-09	F				
1802106	NUMBER	NAME	ACRE-FEET	GPM	PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-1
1902088	DAMS RANCH M	IUTUAL WATER O	COMPANY		, , , , , , , , , , , , , , , , , , , 					
19002688	1002108	1	NΛ	NΔ	0.00	0.00	0.00	0.00	0.00	0.00
BODDISEZ 3 NA NA 66.59 70.00 70.00 70.00 70.00 70.00 SUBTOTAL: NA NA 66.59 70.00 70										0.00
**************************************										70.00
1900010 MOELR (8) 3,145 1,960 11,74 14,45 14,73 14,74 14,69 1900011 9 887 550 621,92 765,66 780,41 780,95 778,45 1900012 10 323 200 168,325 201,83 201,	URTOTAL:		NA	NA	66.59	70.00	70.00	70.00	70.00	70.00
1900010 MOELR (8) 3,145 1,950 11,74 14,45 14,73 14,74 14,69 1900011 9 887 550 62,192 765,56 780,41 780,95 778,45 1900012 10 323 200 166,522 204,73 205,71 2085 208,18 1900013 12 986 600 2,56 3,15 32,1 3,21 3,27 3,20 1900015 14 2,016 1,280 1,480,75 1,800,97 1,843,05 1,844,32 1,830,1900015 14 2,016 1,280 1,480,75 1,800,97 1,843,05 1,844,32 1,830,1900015 14 2,016 1,280 1,480,75 1,800,97 1,843,05 1,844,32 1,830,1900016 1,800,91		OF (1)	1371		00,00	, , ,	7 414 -	,		
1900011		OF (I)								
19000112										14.6
1900013										778.4
1900014		10								208.1
1900015	1900013	12	968	600	2,56	3.15	3.21	3,21	3,20	3.26
1900016	1900014	13	2,371	1,470	0.00	0.00	0.00	0,00	0.00	0.00
1900016		14			1,468,75	1.807.97	1.843.05	1,844,33	1,838.43	1,838,43
1900017										2,271,78
1900018 GARF 763										2,708,3
1902/789										
19030914										0.00
1903097 7 2,581 1,600 866,98 1,067,22 1,087,92 1,088,68 1,085,19 1 SUBTOTAL: 19,600 12,151 9,210.71 11,338,00 11,558,00 11,566,00 11,529,00 1 MARRILLO MUTUAL WATER COMPANY (SAN GABRIEL VALLEY WATER COMPANY) (1) 1900791 1 844 399 368,27 612,72 624,97 637,47 650,22 1900792 2 424 263 1,70 0,71 0,73 0,73 0,73 0,74 SUBTOTAL: 1,068 662 369,97 613,42 625,70 638,20 650,97 NDERSON, RAY L. AND HELEN 8000055 NA 18 11 0,00 0,00 0,00 0,00 0,00 0,00 0,0	1902789	1 LON	1,529	948						1,534.49
1903097	1903014	11	839	520	867,79	1,068_21	1,088.94	1,089,69		1,086.2
MARILLO MUTUAL WATER COMPANY (SAN GABRIEL VALLEY WATER COMPANY) (1) 1900791										1,085.19
1900791 1 644 399 368.27 612.72 624.97 637.47 650.22 1900792 2 424 263 1.70 0.71 0.73 0.73 0.74 650.22 1900792 2 424 263 1.70 0.71 0.73 0.73 0.74 650.22 1900792 2 424 263 1.70 0.71 0.73 0.73 0.74 650.22 1900792 2 424 263 1.70 0.71 0.73 0.73 0.74 650.22 1900792 2 62.424 263 1.70 0.71 0.73 0.73 0.74 650.27 650.	SUBTOTAL:		19,600	12,151	9,210.71	11,338.00	11,558.00	11,566,00	11,529,00	11,529,00
1900792 2 424 263 1.70 0.71 0.73 0.73 0.74 SUBTOTAL: 1.068 662 369.97 613.42 625.70 638.20 650.97 ANDERSON, RAY L. AND HELEN 8000085 NA 18 11 0.00 0.00 0.00 0.00 0.00 0.00 SUBTOTAL: 18 11 0.00 0.00 0.00 0.00 0.00 0.00 ARCADIA, CITY OF (1) 1901013 1 LON 3,629 2,250 778.83 1,035.88 1,038.47 1,041.06 1,043.67 1901014 2 LON 3,629 2,250 0.00 1,035.88 1,038.47 1,041.06 1,043.67 1901014 2 LON 3,629 2,250 0.00 1,035.88 1,038.47 1,041.06 1,043.67 1901015 1 BAL NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902077 1 CAM NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902078 2 CAM NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902078 2 CAM NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902084 2 LGY NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00	AMARILLO MUTU	AL WATER COMP	PANY (SAN GABR	HEL VALLE	Y WATER COMPA	NY) (1)				
1900792 2 424 263 1.70 0.71 0.73 0.73 0.74 SUBTOTAL: 1,068 662 369.97 613.42 625.70 638.20 650.97 ANDERSON, RAY L. AND HELEN 8000085 NA 18 11 0.00 0.00 0.00 0.00 0.00 0.00 SUBTOTAL: 18 11 0.00 0.00 0.00 0.00 0.00 0.00 ARCADIA, CITY OF (1) 1901013 1 LON 3,629 2,250 778.83 1,035.88 1,038.47 1,041.06 1,043.67 1901014 2 LON 3,629 2,250 0.00 1,035.88 1,038.47 1,041.06 1,043.67 1901015 1 BAL NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1000701	4	644	300	368 27	612.72	624 97	637.47	650.22	663.22
SUBTOTAL: 1,068 662 369.97 613.42 625.70 638.20 650.97 ANDERSON, RAY L. AND HELEN 8000085 NA 18 11 0.00 0.00 0.00 0.00 0.00 0.00 SUBTOTAL: 18 11 0.00 0.00 0.00 0.00 0.00 0.00 ARCADIA, CITY OF (1) 1901013 1 LON 3,629 2,250 778.83 1,035.88 1,038.47 1,041.06 1,043.67 1901014 2 LON 3,629 2,250 0.00 1,035.88 1,038.47 1,041.06 1,043.67 1901015 1 BAL NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902077 1 CAM NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902078 2 CAM NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902078 2 CAM NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902084 2 LGY NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902386 1 STJ NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902258 1 STJ NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902254 1 PEC 5,646 3,500 4,329.37 3,934.4 3,983.37 3,993.33 4,003.32 88000177 2 STJ 4,839 3,000 1,041,97 896,73 898.97 901,22 903.47 SUBTOTAL: 20,324 15,600 10,780.06 10,609.02 10,633.43 10,660.02 10,686.67 1 ATTALLA, MARY L. 8000119 NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00										0,77
ANDERSON, RAY L. AND HELEN 8000085 NA 18 11 0.00 0.00 0.00 0.00 0.00 0.00 0.0		-								663,99
8000085 NA 18 11 0.00 0.00 0.00 0.00 0.00 0.00 0.0			1,000	002	309.97	013.42	025.70	030.20	000,31	000,98
SUBTOTAL: 18 11 0.00 0.00 0.00 0.00 0.00 0.00 ARCADIA, CITY OF (1) 1901013 1 LON 3,629 2,250 778,83 1,035,88 1,038,47 1,041,06 1,043,67 1901014 2 LON 3,629 2,250 0.00 1,035,68 1,038,47 1,041,06 1,043,67 1901015 1 BAL NA NA 0,00 0.00 0.00 0.00 0.00 0.00 1902077 1 CAM NA NA 0,00 0.00 0.00 0.00 0.00 0.00 1902078 2 CAM NA NA 0,00 0.00 0.00 0.00 0.00 0.00 1902078 2 CAM NA NA 0,00 0.00 0.00 0.00 0.00 0.00 1902084 2 LGY NA NA 0,00 0.00 0.00 0.00 0.00 0.00 0.00 1902084 2 LGY NA NA 0,00 0.00 0.00 0.00 0.00 0.00 0.00 1902088 1 STJ NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00	ANDERSON, RAY	L. AND HELEN								
ARCADIA, CITY OF (1) 1901013	8000085	NA	18	11	0.00	0.00	0.00	0.00	0.00	0,00
1901013	SUBTOTAL:		18	11	0.00	0.00	0.00	0.00	0.00	0.00
1901014	ARCADIA, CITY O	F (1)								
1901014	1901013	1 I ON	3 629	2.250	778.83	1.035.88	1.038.47	1.041.06	1,043,67	1,043.67
1901015										1,043.67
1902077										0.00
1902078										
1902084 2 LGY NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00										0.00
1902558	1902078	2 CAM	NA	NA	0.00					0.00
1902791 2 BAL 323 200 134,32 281.17 279.76 280,46 281.16 1902854 1 PEC 5,646 3,500 4,329.37 3,973.44 3,983,37 3,993,33 4,003,32 8000127 1 LO 7,097 4,400 4,495.57 3,385.93 3,394.39 3,402.88 3,411,39 8000177 2 STJ 4,839 3,000 1,041,87 896.73 898.97 901,22 903.47 SUBTOTAL: 20,324 15,600 10,780.08 10,609.02 10,633.43 10,660,02 10,686.67 1 ATTALLA, MARY L. 8000119 NA NA NA NA 0.00 0.00 0.00 0.00 0.00 0.	1902084	2 LGY	NA	NA	0.00	0.00	0.00	0.00		0.00
1902791	1902358	1 STJ	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902654 1 PEC 5,646 3,500 4,329.37 3,973.44 3,983.37 3,993.33 4,003.32 8000127 1 LO 7,097 4,400 4,495.57 3,385.93 3,394.39 3,402.88 3,411.39 8000177 2 STJ 4,839 3,000 1,041.97 896.73 898.97 901,22 903.47 SUBTOTAL: 20,324 15,600 10,780.08 10,609.02 10,633.43 10,660.02 10,686.67 1 ATTALLA, MARY L. 8000119 NA NA NA NA 0.00 0.00 0.00 0.00 0.00 0.				200	134.32	281.17	279.76	280.46	281.16	281,16
8000127 1 LO 7,097 4,400 4,495.57 3,385.93 3,394.39 3,402.88 3,411.39 8000177 2 STJ 4,839 3,000 1,041.97 896.73 898.97 901,22 903.47 SUBTOTAL: 20,324 15,600 10,780.08 10,609.02 10,633.43 10,660.02 10,686.67 1 ATTALLA, MARY L. 8000119 NA NA NA NA 0.00 0.00 0.00 0.00 0.00 0.									4,003.32	4,003.32
8000177 2 STJ 4,839 3,000 1,041,97 896,73 898,97 901,22 903,47 SUBTOTAL: 20,324 15,600 10,780,06 10,609,02 10,633,43 10,660,02 10,686,67 1 ATTALLA, MARY L. 8000119 NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00 SUBTOTAL: NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00 AZUSA, CITY OF (AZUSA AGRICULTURE WATER COMPANY, AZUSA VALLEY WATER COMPANY) (1) 1902533 5 (1) 1,613 1,000 1,461,94 1,345,00 1,345,00 1,345,00 1,345,00 1902535 6 (3) 4,839 3,000 264,75 229,00 229,00 229,00 229,00 1902536 GENESIS 1 (4) NA NA 0.00 0.00 0.00 0.00 0.00 1902537 GENESIS 2 (5) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0										3,411.39
ATTALLA, MARY L. 8000119 NA NA NA NA 0.00 0.00 0.00 0.00 0.00 0.						906.72				903.47
8000119 NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00	SUBTOTAL:		20,324	15,600	10,780.06	10,609.02	10,633.43	10,660,02	10,686.67	10,686.67
8000119 NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00	ATTALLA, MARY	L.								1
SUBTOTAL: NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.00			NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
AZUSA, CITY OF (AZUSA AGRICULTURE WATER COMPANY, AZUSA VALLEY WATER COMPANY) (1) 1902533 5 (1) 1,613 1,000 1,461.94 1,345.00 1,345.00 1,345.00 1,345.00 1902535 6 (3) 4,839 3,000 264.75 229.00 229.00 229.00 229.00 1902536 GENESIS 1 (4) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902537 GENESIS 2 (5) NA NA 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0									0.00	0.00
1902533 5 (1) 1,613 1,000 1,461.94 1,345.00 1,345.00 1,345.00 1,345.00 1,902535 6 (3) 4,839 3,000 264.75 229.00 229.00 229.00 229.00 1902536 GENESIS 1 (4) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902537 GENESIS 2 (5) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0		ATUDA ACDICIII						0.00	0.00	0.00
1902535 6 (3) 4,839 3,000 264.75 229.00 229.00 229.00 229.00 1902536 GENESIS 1 (4) NA NA 0.00 0.00 0.00 0.00 0.00 1902537 GENESIS 2 (5) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0	AZUSA, CITT OF	(AZUSA AGRICUL								
1902535 6 (3) 4,839 3,000 264.75 229.00 229.00 229.00 229.00 1902536 GENESIS 1 (4) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902537 GENESIS 2 (5) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1902533	5 (1)								1,345.0
1902536 GENESIS 1 (4) NA NA 0.00	1902535		4,839	3,000	264.75	229.00	229.00	229.00	229.00	229.00
1902537 GENESIS 2 (5) NA NA 0.00 0.00 0.00 0.00 0.00 1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 0.00 8000072 1 (7) 5,242 3,250 1,723.80 2,482.00 2,482.00 2,482.00 2,482.00 2,482.00 800086 3 (8) 4,516 2,800 2,990.03 2,772.00 2,772.00 2,772.00										0.00
1902538 GENESIS 3 (6) NA NA 0.00 0.00 0.00 0.00 0.00 800072 1 (7) 5,242 3,250 1,723.80 2,482.00 2,482.00 2,482.00 2,482.00 800086 3 (8) 4,516 2,800 2,990.03 2,772.00 2,772.00 2,772.00 2,772.00										0.0
8000072 1 (7) 5,242 3,250 1,723.80 2,482.00 2,482.00 2,482.00 2,482.00 2,482.00 2,482.00 2,482.00 2,772.00 2,772.00 2,772.00 2,772.00										0.0
800086 3 (8) 4,516 2,800 2,990.03 2,772.00 2,772.00 2,772.00 2,772.00		, ,								
0,000										2,482.0
	8000086	3 (8)	4,516	2,800	2,990.03	2,772.00				2,772.0
	1902457	2 (1 NORTH)	4,516	2,800	4,121.96	4,020.00	4,020.00	4,020.00	4,020.00	4,020.00
										2,753.0
1902113 AVWC1 NA NA 0.00 0.00 0.00 0.00 0.00										0.00

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APPENDIX A
PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

DECORPATION	NA/E-1 1	NAMES I ASS	ACITY	2000 20		PROJECTED G	ROHNDWATER	DEMANDS	
RECORDATION NUMBER	WELL NAME	WELL CAP	GPM	2008-09 PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-14
NUMBER	IVAIVIE	ACRE-FEET	GPIN	PRODUCTION	2009-10	2010-11	2011-12	2012-13	2010-14
1902114	AVCW 2	NA	NA	0.00	0.00	0.00	0.00	0,00	0.00
1902115	8 (AVWC 4)	2,984	1,850	51.57	42.00	42.00	42.00	42.00	42.00
				66.63	114.00	114.00	114.00	114.00	114.00
1902116	7 (AVWC 5)	1,694	1,050					0.00	0.00
1902117	9 (AVWC 6)	NA	NA	0.00	0.00	0.00	0.00		0.00
1902425	AVWC 7	NA	NA	0.00	0.00	0.00	0.00	0.00	
8000103	10 (AVWC 8)	4,194	2,600	6.25	9.00	9.00	9.00	9.00	9.00
8000178	11	3,549	2,200	1,388.34	1,761.00	1,761,00	1,761.00	1,761.00	1,761.00
8000179	12	2,581	1,600	1,182.01	1,198.00	1,198.00	1,198.00	1,198.00	1,198.00
1903119	VULCAN			26,15	50.00	50.00	50,00	50.00	50.00
SUBTOTAL:		15,001	9,300	16,694.63	16,775,00	16,775.00	16,775.00	16,775,00	16,775.00
CEMEX CONSTRU	CTION MATERIA	ALS L.P. (AZ-TWO	INC.)						
1900038	2	2,305	1,429	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		2,305	1,429	0.00	0.00	0.00	0.00	0.00	0.00
B & B RED-I-MIX C	ONCRETE INC.								
1902589	1	NA	NA	0.00	0.00	0.00	0.00	0,00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
BANKS, GALE & V	ICKI (1)								
1900415	NA	560	347	27.46	25.00	25.00	25.00	25.00	25.00
SUBTOTAL		560	347	27,46	25.00	25,00	25.00	25.00	25.00
BASELINE WATER	COMPANY								
1901200	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
					0.00	0.00	0.00	0.00	0.00
1901201	2	NA	NA	0.00					
1901202	3	NA	NA	0,00	0.00	0.00	0,00	0.00	0.00
SUBTOTAL:		NA	NA	0,00	0.00	0.00	0.00	0.00	0.00
BEVERLY ACRES	MUTUAL								
8000004	ROSE HILLS	NA	NA	0.00	0,00	0,00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0,00	0.00	0.00	0.00
BIRENBAUM, MAX	(
8000005	NA	NA	NA	0,00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
BROOKS, GIFFOR	D JR.				<u> </u>				
1902144	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
BURBANK DEVEL	OPMENT COMP	ANY							
1900093	BURB	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
CALIFORNIA-AME	RICAN WATER	COMPANY/DUAR	TE SYSTEM	(1)					
1900354	STA FE	3,226	2,000	1,032.03	1,154.50	1,171.80	1,189.39	1,207.27	1,225.31
1900355	B-V	3,468	2,150			929.27	943.22	957.40	971.70
1900356	MT AVE	1,936	1,200			0.00	0.00	0.00	0.00
1900357	LASL	1,113	690			0.00	0.00	0.00	0.00
1900358	FISH C	1,936	1,200			44.44	45.11	45.79	46.47
						2,139.08	2,171.19	2,203.84	2,236.76
1902907	WILEY	2,581	1,600					2,002.20	2,032.11
1903018	CR HV	2,823	1,750			1,943.36	1,972.54		
8000139	ENCTO	3,549	2,200	763.02	853.57	866.35	879.36	892.58	905.92

APPENDIX A
PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION	WELL	WELL CAP		2008-09			ROUNDWATER		
NUMBER	NAME	ACRE-FEET	GPM	PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-14
8000140	LASL 2	2,742	1,700	728.38	814,82	827.02	839.44	852,06	864.79
11900497	BACON	726	450	5.00	5.59	5,68	5.76	5,85	5.94
								0,00	0.01
SUBTOTAL:		24,098	14,940	6,981.51	7,810.00	7,927,00	8,046,00	8,167,00	8,289,00
ALIFORNIA-AME	RICAN WATER	COMPANY/SAN MA	ARINO SYS	TEM(1)					
1900917	HALL	NA	NA	0.00	0,00	0.00	0,00	0.00	0,00
1900918	GUESS	634	393	0.00	0.00	0.00	0.00	0.00	0.00
1900919	MISVW	NA	NA	0.00	0.00	0,00	0,00	0.00	0.00
1900920	MISVW	2,571	1,594	1,851,37	1,870,31	1,898.42	1,926.75	1,955,71	1,984.88
1900921	RIC-1	NA	NA	0.00	0.00	0.00	0,00	0.00	0,00
1900922	RIC-2	NA	NA	0.00	0.00	0.00	0,00	0.00	0,00
1900923	IVR-1	1,339	830	0,00	0.00	0.00	0.00	0,00	0.00
1900924	MAR-1	NA	NA.	0,00	0.00	0.00	0,00	0,00	0.00
1900925	MAR-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900926	GRAND	1,816	1,126	937.55	947.14	961.38	975.72	990,39	1,005,16
1900927	ROSE	929	576	881.75	890,77	904.16	917,65	931,44	945,34
1900934	ROAN	1,952	1,210	0.00	0,00	0,00	0.00	0.00	0.00
1900935	LONG	3,152	1,954	684.53	691.53	701.93	712,40	723.11	733,89
1901441	BR-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902424	HOWL	1,707	1,058	279.89	282.75	287.00	291,29	295.66	300.07
1902787	BR-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902867	IVR-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1903019	MAR-3	2,766	1,715	1,666.55	1,683,60	1,708.91	1,734.40	1,760.47	1,786,73
1903059	DELMAR	1,571	974	1,094.22	1,105.41	1,122.03	1,138.77	1,155.89	1,173.13
8000175	HALL-2	NA	NA	1,362.54	1,376,48	1,397,17	1,418,02	1,439.33	1,460.80
SUBTOTAL:		18,437	11,430	8,758.40	8,848,00	8,981.00	9,115,00	9,252.00	9,390.00
CALIFORNIA COUN	TRY CLUB								
1902529	CLUB	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902531	ARTES	1,129	700	0.06	2.73	2 73	2,73	2.73	2.73
1903084	SYC	1,290	800	0.05	2.27	2.27	2.27	2.27	2.27
SUBTOTAL:		2,420	1,500	0.11	5.00	5,00	5,00	5.00	5.00
CALIFORNIA DOME	STIC WATER O	COMPANY (1)							
1901181	2	5,404	3,350	881,35	929,25	1,041.40	1,078.79	1 110 17	1 1 1 0 0 1
1901182	1-E	NA NA	3,350 NA	0.00	0.00			1,116.17	1,148.21
1901183	5	NA NA	NA			0.00	0.00	0.00	0.00
1901185	13-N	NA NA		0.00	0.00	0.00	0.00	0.00	0.00
1902967			NA 4 200	0.00	0.00	0.00	0.00	0.00	0.00
1902967	6 3	6,775	4,200	3,877.61	4,088.37	4,581.79	4,746.26	4,910.74	5,051.72
		7,581	4,700	7,000.07	7,380.54	8,271,29	8,568.21	8,865.13	9,119.63
1903081	8	5,162	3,200	717.71	756.72	848.05	878.49	908.93	935.03
8000100	5A -	7,742	4,800	4,026,29	4,245.13	4,757.47	4,928.25	5,099.03	5,245.41
8000174	14	4,516	2,800	0.00	. 0.00	0.00	0.00	0.00	0_00
11900092		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		37,180	23,050	16,503.03	17,400.00	19,500.00	20,200.00	20,900.00	21,500.00
EDAR AVENUE M	UTUAL WATER	COMPANY							ì
1901411	1	NA	NA	0,00	0,00	0.00	0.00	0.00	0.00
1902783	2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		0	0	0.00	0,00	0.00	0.00	0.00	0.00
CHAMPION MUTUA	L WATER COM	PANY							
1900908	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902816	2	516	320	0.69	7.92	7.92	7.92	7.92	7.92
8000121	3	145	90	98.08	79,58	79.58	79,58	79,58	79.58
SUBTOTAL:		661	410	98.77	87,50	87.50	87.50	87,50	87.50
HEVRON USA									
1900250	TEMP1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900250	TEMP1	NA	NA	0.00	0.00	0.00	0.00	0.00	0

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APPENDIX A
PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

SUBTOTAL: NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0	RECORDATION	WELL	WELL CAPA		2008-09	р	ROJECTED GR	OUNDWATER	DEMANDS	
CLAYTON MANUFACTURING COMPANY 1801055 2 NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00	NUMBER	NAME	ACRE-FEET	GPM	PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-14
1901085 2	SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL: NA NA 0.00	CLAYTON MANUF	ACTURING CO	MPANY							
SUBTOTAL: NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0										0,00
COLLISON, E.O. 190296B NA NA NA NA NA 0.00 0.00 0.00 0.00 0.00		10100-4								0,00
1902968			IVA	IVA	0.00	0,00	0.00	0,00	0,00	0,00
SUBTOTAL: NA NA 0.00		NΔ	NA	MA	0.00	0.00	0.00	0.00	0.00	2.00
1902920 E DUR 6,386 3,059 256.97 299.56 320.98 342.35 363.75 386.800005 1 REL 4,068 2,522 264.79 306.87 330.72 352.77 374.82 386.800005 3 REL 4,068 2,522 264.79 306.87 330.72 352.77 374.82 386.800005 3 REL 4,068 2,522 264.79 306.87 300.72 352.77 374.82 386.800005 3 REL 4,068 2,522 264.79 306.87 300.75 352.77 374.82 386.800005 3 REL 4,068 4,881 600.48 700.00 750.00 800.00 850.00 800.00		IVA								0.00
1902920 E DUR 6,386 3,969 256.97 299.56 320.96 342.35 363.75 385.80088 1 REL 4,088 2,5622 294.79 308.67 330.72 352.77 374.82 385.80088 374.82 385.80088 374.82 385.80088 374.82 385.80088 374.82 385.80088 374.82 385.80088 374.82 385.80088 374.82 385.80088 374.82 385.80088 374.82 385.80088 374.82 385.80088 374.82 385.80088 385.8008		LS COMPANY			0.00	0.00	0.00	0,00	0.00	0.00
## 1903088					0.00	000 54	000.00	240.05	000 75	
SOURCE NA NA 78.72 91.77 98.32 104.88 111.43 117.75 117.7										385.15 396.87
CORCORAN BROS. 1902814 1 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8000063	W DUR								117.99
1902814	SUBTOTAL:		10,454	6,481	600.48	700,00	750.00	800.00	850.00	900.00
SUBTOTAL: NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.00	CORCORAN BROS									
COUNTY SANITATION DISTRICT NO, 18 8000009	1902814	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000008	SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000099 3 NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00	COUNTY SANITATI	ION DISTRICT	NO. 18							
8000104 LE 1 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0										0.00
B000105										0.00
8000108 LE 3 NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00										0.00
B000107										0.00
8000128 EO8A NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00										0.00
B000129										0.00
8000130 E10A NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0	8000129									0.00
B000131	8000130	E10A								0.00
8000141 EX1 NA NA 0.48 0.45 0.45 0.45 0.45 0.45 0.06 0.00142 EX2 NA NA NA 0.37 0.35 0.35 0.35 0.35 0.35 0.00143 EX3 NA NA 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.0	8000131	E11A	NA							0.00
8000142 EX2 NA NA 0.37 0.35 0.35 0.35 0.35 0.35 0.35 0.08 000143 EX3 NA NA 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.0	8000141	EX1	NA							0.45
8000143 EX3 NA NA 0.08 0.08 0.08 0.08 0.08 0.08 0.08 800144 EX4 NA NA NA 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.0	8000142	EX2	NA							0.35
8000144 EX4 NA NA 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.0	8000143	EX3	NA	NA	0.08					0.08
8000163 E16A NA NA 1.24 1.17 1.17 1.17 1.17 1.17 1.17 1.0000154 E17A NA NA NA 2.48 2.34 2.34 2.34 2.34 2.34 2.34 2.34 2.34	8000144	EX4	NA	NA	0.06					0.06
8000155 E18A NA NA NA 0.67 0.63 0.63 0.63 0.63 0.63 0.63 8000155 E19A NA NA 1.30 1.23 1.23 1.23 1.23 1.23 1.23 1.23 1.23	8000153	E16A	NA	NA	1.24	1.17				1.17
B000156 E19A NA NA 1.30 1.23 1.23 1.23 1.23 1.23 1.23 1.23 8000173 E20A NA NA NA 1.65 1.56 1.56 1.56 1.56 1.56 1.56 1.56			NA	NA	2.48	2,34	2.34	2.34	2.34	2.34
8000173 E20A NA NA NA 1.65 1.56 1.56 1.56 1.56 1.56 1.56 1.56					0,67	0.63	0.63	0.63	0.63	0.63
8000161 E01R NA NA 0.24 0.23 0.23 0.23 0.23 0.23 0.23 0.23 8000162 E03R NA NA NA 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0							1.23	1.23	1.23	1.23
8000162 E03R NA NA NA 0.05 0.05 0.05 0.05 0.05 0.05 0.05 8000163 E05R NA NA NA 1.03 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97										1.56
8000163										0.23
8000164 E07R										0.05
8000165 E02R NA NA NA 2.04 1.93 1.93 1.93 1.93 1.93 1.93 8000166 E04R NA NA NA 0.75 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71										0.97
B000166 E04R NA NA 0.75 0.71 0.71 0.71 0.71 0.71 8000167 E06R NA NA NA 0.37 0.35 0.35 0.35 0.35 0.35 0.35 8000168 E08R NA NA NA 1.23 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.1										1.73
8000167 E06R NA NA NA 0.37 0.35 0.35 0.35 0.35 0.35 0.35 8000168 E08R NA NA NA 1.23 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.1										1.93
8000168 E08R NA NA 1.23 1.16 1.16 1.16 1.16 1.16 1.18 1. SUBTOTAL: NA NA 15.87 15.00 15.0										0,71
AZUSA ASSOCIATES LLC (COVELL, ET AL) 1900390 DALTON NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.										0.35 1.16
1900390 DALTON NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.	SUBTOTAL:		NA	NA	15.87	15.00	15.00	15.00	15.00	15.00
SUBTOTAL: NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0	AZUSA ASSOCIATE	ES LLC (COVE	LL, ET AL)							
COVINA, CITY OF 1901685 1 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1900390	DALTON	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901685 1 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0	SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901686 2 968 600 0.00 0.00 0.00 0.00 0.00	COVINA, CITY OF									
1901886 2 968 600 0.00 0.00 0.00 0.00 0.00 0.00				NA	0.00	0,00	0.00	0.00	0.00	0.00
			968	600						0.00
	1901687	3	NA	NA	0.00					0.00

APPENDIX A
PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION	WELL	WELL CAP	ACITY	2008-09	Р	ROJECTED GR	OUNDWATER	DEMANDS	
NUMBER	NAME	ACRE-FEET	GPM	PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-1
		- the		\\					
CURTOTAL		000	600	0.00	0.00	0.00	0.00	0.00	0.0
SUBTOTAL:		968	600	0.00	0.00	0,00	0.00	0.00	0.0
COVINA IRRIGATIN	IG COMPANY (1)							
1900881	CONTR	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1900882	3 BAL	3,549	2,200	2,221.30	2,400.00	2,600.00	2,600.00	2,600.00	2,600.0
1900883	2 BAL	3,226	2,000	1,673.94	2,000.00	2,400.00	2,400.00	2,400.00	2,400.0
1900885	1 BAL	2,420	1,500	1,367.48	1,600.00	2,000.00	2,000.00	2,000.00	2,000.0
11900880	VALEN	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
21900880	VALEN	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
SUBTOTAL:		9,194	5,700	5,262.72	6,000.00	7,000.00	7,000.00	7,000.00	7,000.0
CREVOLIN, A.J.									
8000011	NA	NA	NA	0.00	0.00	0,00	0.00	0.00	0.0
SUBTOTAL:		NA	NA	0.00	0.00	0,00	0,00	0.00	0.0
CROWN CITY PLAT	ING COMPANY	Y							
8000012	01	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
DAVIDSON OPTRO	NICS INC.								
8000013	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
SUBTOTAL:		NA	NA	0.00	0,00	0,00	0.00	0,00	0,0
DAWES, MARY K.									
1902952	04	NA	NA	0.00	0.00	0,00	0.00	0.00	0.0
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
DEL RIO MUTUAL \	WATER COMPA	ANY (1)							
1900331	BURKE	261	162	117.89	125.00	125,00	125,00	125.00	125,0
1900332	KLING	NA	NA	0.00	0.00	0.00	0.00	0,00	0,0
SUBTOTAL:		261	162	117.89	125.00	125.00	125.00	125.00	125.0
DRIFTWOOD DAIR									
1902924	01	298	185	149.92	150,00	150.00	150.00	150.00	150.0
SUBTOTAL:		298	185	149.92	150.00	150.00	150.00	150.00	150.0
DUNNING, GEORGI	E								
1900091	1910	NA	NA	0.00	0.00	0.00	0.00	0.00	9.0
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
EAST PASADENA \	WATER COMPA	ANY, LTD. (1)							
11901508	9	2,500	1,550	1,454.34	1,773,69	1,791.43	1,809,34	1,827,43	1,827.4
SUBTOTAL:		2,500	1,550	1,454.34	1,773,69	1,791.43	1,809,34	1,827.43	1,827_4
EL MONTE, CITY O	F (1)								
1901692	2A	1,532	950	383.59	424.23	424-23	424.23	424.23	424.2
1901693	3	1,936	1,200	0.00	0.00	0.00	0.00	0.00	0.0
	4	2,258	1,400	0.00	0.00	0.00	0.00	0.00	0.0
1901694									
1901695	5	NA	NA	0.00	0.00	0_00	0.00	0,00	
1901695 1901699	10	2,420	1,500	454.79	502.97	502.97	502.97	502.97	502.9
1901695									0.0 502.9 0.0 0.0

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APPENDIX A
PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION	WELL	WELL WELL CAPACITY			PROJECTED GROUNDWATER DEMANDS					
NUMBER	NAME	ACRE-FEET	GPM	2008-09 PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-14	
1903137	12	3,468	2,150	739,81	818,19	818.19	818.19	818,19	818.19	
8000066	12	NA NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
8000101	13	4,678	2,900	979,81	1,083,61	1,083.61	1,083.61	1,083,61	1,083.61	
SUBTOTAL:		17,098	10,600	2,558.00	2,829,00	2,829.00	2,829,00	2,829.00	2,829.00	
EL MONTE CEMET	ERY ASSOCIAT	TION								
8000017	NA	NA	NA	0.00	0.00	0,00	0.00	0.00	0.00	
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
FRUIT STREET WA	TER COMPANY	r								
1901199	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0,00	0.00	0.00	
GLENDORA, CITY	OF (1)									
		1 294	704	495.04	577 RC	507.24	616.82	616.92	616.82	
1900826 1900827	11-E 12-G	1,281 2,957	794 1,833	485.04 2,524.94	577.66 3,007.09	597.24 3,109.02	616.82 3.210.96	616.82 3,210.96	3,210,96	
1900828	10-E	629	390	306.42	364.93	377.30	389.67	389.67	389.67	
1900829	8-E	2,258	1,400	1,559.84	1,857.70	1,920.67	1,983,64	1,983.64	1,983.64	
1900830	9-E	2,757	1,709	1,285,58	1,531.07	1,582.97	1,634.87	1,634.87	1,634.87	
1900831	7-G	2,737 NA		0.00	0.00	0.00	0.00	0.00	0.00	
			NA							
1901523	1-E	347	215	39.97	47.60	49.22	50.83	50,83	50.83	
1901524	4-E	3,549	2,200	0.00	0,00	0,00	0.00	0.00	0.00	
1901525	3-G	3,307	2,050	0.00	0.00	0.00	0.00	0.00	0.00	
1901526	2-E	484	300	491.37	585.20	605.04	624.87	624.87	624.87	
8000003		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
8000149	5-E	3,039	1,884	2,166.04	2,579.65	2,667.10	2,754.54	2,754.54	2,754.54	
8000184	13-E	1,168	724	1,048.83	1,249.11	1,291.45	1,333.79	1,333,79	1,333.79	
SUBTOTAL:		21,774	13,499	9,908.03	11,800.00	12,200.00	12,600.00	12,600.00	12,600.00	
GOEDERT, LILLIA	N									
8000027	GOEDERT	NA	NA	0,00	0.00	0.00	0.00	0.00	0.00	
SUBTOTAL:		NA	NA	0,00	0.00	0.00	0.00	0.00	0.00	
GREEN, WALTER										
0000007	NIA			0.00	0.00	0.00	0.00	0.00	0.00	
8000027 8000028	NA NA	NA NA	NA NA		0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	
SUBTOTAL:	27	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
HANSEN, ALICE					*					
8000029	2946	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	
HARTLEY, DAVID										
8000029	NA	NA	NA	0.00	0.00	0,00	0.00	0.00	0.00	
SUBTOTAL:		NA	NA		0.00	000	0.00	0.00	0.00	
HEMLOCK MUTUA	AL WATER COM									
			100	40.00	44.00	44.00	44.00	44.00	44.00	
1901178 1902806	NORTH SOUTH	219 516	136 320		44.88 75.12	44.88 75.12	44.88 75.12	44.88 75.12	44.88 75.12	
SUBTOTAL:		736	456	107.75	120.00	120.00	120.00	120.00	120.00	
INDUSTRY WATER	RWORKS SYSTI	EM, CITY OF (1)								
1000=01				0.00	0.00	2.25		0.00	0.00	
1902581 1902582	1 2	2,887 NA	1,790 NA		0.00 0.00	0.00	0.00 0 ₋ 00	0.00 0.00	0.00	

APPENDIX A
PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

NUMBER	MARKE	WELL CAPA		2008-09	F				
NUMBER	NAME	ACRE-FEET	GPM	PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-14
1902583	5TH AVE	NA	NA	0.00	0,00	0.00	0.00	0.00	0.0
8000078	3	2,420	1,500	0.00	0.00	0.00	0.00	0,00	0.00
8000096	4	3,871	2,400	0.00			0.00	0.00	0.00
8000097	5	1,936			0.00	0.00	0.00	0,00	0.00
	3	1,930	1,200	1,59	712.00	712.00	712.00	712,00	712.00
UBTOTAL:		11,114	6,890	1,59	712.00	712.00	712,00	712.00	712.00
IYAN, HIDEO									
1902970	NA	NA	NA	0.00	0,00	0.00	0.00	0.00	0,00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0,00	0.00
A PUENTE VALLE	Y COUNTY WA	TER DISTRICT (1)							
1901459	1	NA	NA	0.00	0.00	0.00	0.00	2.00	
1901460	2					0.00	0,00	0.00	0.00
1902859	3	2,016	1,250	932,23	1,840.00	1,840,00	1,840,00	1,840.00	1,840,00
8000062		2,016	1,250	1,236.77	541,18	541.18	541.18	541.18	541.18
	4	807	500	0.00	865.88	865.88	865.88	865.88	865.88
8000209	5	NA	NA	1,623.79	432 94	432,94	432,94	432,94	432.94
UBTOTAL:		4,839	3,000	3,792.79	3,680.00	3,680.00	3,680,00	3,680.00	3,680.00
A VERNE, CITY OF	:								
1902322	SNIDO	NA	NA	0.00	0,00	0,00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0,00	0.00	0.00	0.00	0,00	0.00
AKIN, KELLY									
8000158	NA	NA	NA	0.00	0_00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
ANDEROS, JOHN							10.	4,00	0,00
8000031	NIA		***						
	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
UBTOTAL:		NA	NA	0,00	0.00	0.00	0_00	0.00	0.00
ANSON AGGREGA	TES WEST, IN	C. (LIVINGSTON-GF	RAHAM)						
1900961	1 DUA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900963	1 KIN	NA	NA	0.00	0.00	0.00	0.00	0.00	
1901492	1 EL	3,302	2,047	186.96	199,94	233.27	266,59		0.00
1901493	3 EL	4,563	2,829	91.37	97.71	1 1 4.00	130.29	299.91	333.24
1903006	4 EL	356	221	2.19	2.34	2.73	3.12	146.57 3.51	162.86 3.90
UBTOTAL:		8,221	5,097	280.52	300.00	350.00	400.00	450.00	500.00
OS ANGELES, COL	INTY OF				41				000,00
1902579	1 WHI	2.710	1 680	046.62	040.04	0.40.0.4	0.40.04		3
		2,710	1,680	946.63	940.04	940.04	940.04	940.04	940,04
1902580	2	1,697	1,052	0.00	0.00	0.00	0.00	0.00	0.00
1902663	3	566	351	0.00	0.00	0.00	0.00	0.00	0.00
1902664	4	832	516	0.00	0.00	0.00	0.00	0.00	0.00
1902665	5	652	404	327.55	325,27	325.27	325 27	325.27	325,27
1902666	6	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000070	1 SF	3,349	2,076	891.90	885.69	885.69	885.69	885.69	885.69
8000074	2 SF	458	284	30.29	30.08	30.08	30.08	30.08	30,08
8000088	BRED	174	108	49.89	49.54	49.54	49.54	49.54	49.54
8000089	NLK	1,323	820	1,133.86	1,125.96	1,125.96	1,125.96		
8000090	600	NA	NA					1,125.96	1,125,96
11902158	BN PK			0.00	0.00	0.00	0.00	0.00	0.00
		2,087	1,294	0.00	0.00	0.00	0.00	0.00	0.00
8000150	3A	1,936	1,200	252.44	250_68	250,68	250,68	250.68	250,68
NA	WNOU	NA	NA	1,906.01	1,892.74	1,892.74	1,892,74	1,892.74	1,892.74
			9,785	5,538.57	5,500.00	5,500.00			

LOS FLORES MUTUAL WATER COMPANY

APPENDIX A
PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

NAME		WELL	WELL CARLS	ITV I	2008-09	DD	OJECTED GRO	UNDWATER D	DEMANDS	
11020698	RECORDATION NUMBER	WELL NAME			1					2013-14
TIBLOGOS 1-H NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00		41.0	No.	NIA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL: NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.00										
DEBIDITIES NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00					0.00	0.00	0.00	0.00	0.00	0.00
8000032 NA NA NA NA 0.00 0.00 0.00 0.00 0.00 0.	SUBTOTAL:		NA	NA	0.00	0,00	0.00	0.00	0,00	0.00
SUBTOTAL: NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.00	LOUCKS, DAVID									
MARCHTLEN, J.J. TRUSTEE	8000032	NA	NA	NA	0.00	0.00	0,00	0.00	0.00	0_00
MAGCHTLEN, J.J. TRUSTEE 1902321 OLDBO NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0	SUBTOTAL:		NA	NA	0.00	0.00	0,00	0.00	0.00	0.00
1902/327		RUSTEE								
1902322	1902321	OLD60	NA	NA	0.00	0.00	0.00	0,00		0.00
SUBTOTAL: NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0				NA						
MANNING BROS. ROCK & SAND COMPANY 1900117	1902323	M & N	NA	NA	0.00	0.00	0.00	0.00	0,00	0.00
1990117 36230 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.	SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0,00
SUBTOTAL: NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0	MANNING BROS. R	OCK & SAND	COMPANY							
MAPLE WATER COMPANY (SUBURBAN WATER SYSTEMS) 1900042	1900117	36230	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900042	SUBTOTAL:		NA	NA	0.00	0,00	0.00	0.00	0.00	0.00
### 190042	MAPLE WATER CO	MPANY (SUB	URBAN WATER SYST	EMS)						
SUBTOTAL: NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1900042	2	NA	NA	0.00	0.00		7-6		0.00
MARTINEZ, FRANCES MERCY 8000033 NA NA NA NA 0.00 0.00 0.00 0.00 0.00 0.		1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000033 NA NA NA NA 0.00 0.00 0.00 0.00 0.00 0.	SUBTOTAL:		NA	NΑ	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL: NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00	MARTINEZ, FRANC	ES MERCY								
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA 1800693 2 NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00	8000033	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900693 2 NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00	SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900694 3 NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00	METROPOLITAN W	ATER DISTRI	CT OF SOUTHERN CA	ALIFORNIA	A					
SUBTOTAL: NA NA NA NA 0.00 0.0	1900693	2	NA							0.00
MILLER BREWERIES WEST, L.P. (MILLER BREWING COMPANY) 8000034	1900694	3	NA	NA	0.00	0.00	0,00			
8000034	SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000075 1 5,633 3,430 12.56 20.00 20.00 20.00 20.00 20.00 20.00 8000076 2 5,533 3,430 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	MILLER BREWERI	ES WEST, L.P	. (MILLER BREWING C	COMPANY	()					
8000076 2 5,533 3,430 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	8000034		NA	NA	0.00					0.00
SUBTOTAL: 11,065 6,860 12.56 20.00 2										0.00
MONROVIA, CITY OF (1) 1900417	8000076	2								20.00
1900417 1 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0	SUBTOTAL:		11,065	6,860	12.56	20.00	20.00	20.00	20.00	20,00
1900418 2 3,549 2,200 845.68 950.18 961.17 972.15 983.14 994.1 1900419 3 2,581 1,600 1,020.19 1,146.26 1,159.51 1,172.76 1,186.01 1,199.2 1900420 4 3,226 2,000 1,116.19 1,254.12 1,266.62 1,283.12 1,297.62 1,312.1940104 5 4,678 2,900 2,596.33 2,917.16 2,950.89 2,984.61 3,018.34 3,052.6 8000171 6 4,516 2,800 2,120.27 2,382.28 2,409.82 2,437.36 2,464.90 2,492.4 SUBTOTAL: 18,550 11,500 7,698.66 8,650.00 8,750.00 8,850.00 8,950.00 9,050.00 MONROVIA NURSERY 1902456 DIV 4 NA NA NA 0.39 20.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	MONROVIA, CITY	OF (1)								<u>}</u> , .
1900418 2 3,549 2,200 845.68 950.18 961.17 972.15 983.14 994.1 1900419 3 2,581 1,600 1,020,19 1,146.26 1,159.51 1,172.76 1,186.01 1,199.2 1900420 4 3,226 2,000 1,116.19 1,254.12 1,268.62 1,283.12 1,297.62 1,312.1 1940104 5 4,678 2,900 2,596.33 2,917.16 2,950.89 2,984.61 3,018.34 3,052.0 8000171 6 4,516 2,800 2,120.27 2,382.28 2,409.82 2,437.36 2,464.80 2,492.4 SUBTOTAL: 18,550 11,500 7,698.66 8,650.00 8,750.00 8,850.00 8,950.00 9,050.00 MONROVIA NURSERY 1902456 DIV 4 NA NA NA 0.39 20.00 0.00 0.00 0.00 0.00 0.00 SUBTOTAL: NA NA NA 0.39 20.00 0.00 0.00 0.00 0.00 0.00 MONTEREY PARK, CITY OF (1)	1900417	1	NA	NA	0.00	0.00	0.00	0,00		0.0
1900419 3 2,581 1,600 1,020,19 1,146.26 1,159,51 1,172,76 1,186.01 1,199,21 1900420 4 3,226 2,000 1,116.19 1,254.12 1,268.62 1,283.12 1,297.62 1,312.1940104 5 4,678 2,900 2,596.33 2,917.16 2,950.89 2,984.61 3,018.34 3,052.6 8000171 6 4,516 2,800 2,120,27 2,382,28 2,409.82 2,437.36 2,464.90 2,492.4 SUBTOTAL: 18,550 11,500 7,698.66 8,650.00 8,750.00 8,850.00 8,950.00 9,050.6 MONROVIA NURSERY 1902456 DIV 4 NA NA NA 0.39 20.00 0.00 0.00 0.00 0.00 0.00 0.00 0.										994.1
1900420 4 5,220 2,900 2,596,33 2,917.16 2,950.89 2,984.61 3,018.34 3,052.0 1940104 5 4,678 2,900 2,120.27 2,382,28 2,409.82 2,437.36 2,464.90 2,492.4 SUBTOTAL: 18,550 11,500 7,698.66 8,650.00 8,750.00 8,850.00 8,950.00 9,050.0 MONROVIA NURSERY 1902456 DIV 4 NA NA NA 0.39 20.00 0.00 0.00 0.00 0.00 0.00 SUBTOTAL: NA NA NA 0.39 20.00 0.00 0.00 0.00 0.00 0.00 0.00 MONTEREY PARK, CITY OF (1)			2,581							
## 1940104	1900420	4								
8000171 6 4,516 2,800 2,120,27 2,382,28 2,409,82 2,437.36 2,464,80 2,492.4 SUBTOTAL: 18,550 11,500 7,698,66 8,650.00 8,750.00 8,850.00 8,950.00 9,050.0 MONROVIA NURSERY 1902456 DIV 4 NA NA 0.39 20.00 0.00 0.00 0.00 0.00 0.00 SUBTOTAL: NA NA 0.39 20.00 0.00 0.00 0.00 0.00 0.00 MONTEREY PARK, CITY OF (1)		5								
MONROVIA NURSERY 1902456 DIV 4 NA NA 0.39 20.00 0.00 0.00 0.00 0.00 SUBTOTAL: NA NA 0.39 20.00 0.00 0.00 0.00 0.00 MONTEREY PARK, CITY OF (1)		6	4,516	2,800	2,120,27	2,382.28	2,409.82	2,437.36		
1902456 DIV 4 NA NA 0.39 20.00 0.00 0.00 0.00 0.00 0.00 SUBTOTAL: NA NA 0.39 20.00 0.00 0.00 0.00 0.00 0.00 0.00 MONTEREY PARK, CITY OF (1)	SUBTOTAL:		18,550	11,500	7,698,66	8,650.00	8,750,00	8,850.00	8,950.00	9,050.0
1902456 DIV 4 NA NA 0.39 20.00 0.00 0.00 0.00 0.00 0.00 MONTEREY PARK, CITY OF (1)	MONROVIA NURS	ERY								
MONTEREY PARK, CITY OF (1)	1902456	DIV 4	NA	NA	0.39	20.00	0.00	0,00	0.00	0.0
244.00 00074 057.44 266.45 266.15 266	SUBTOTAL:		NA	NA	0,39	20.00	0.00	0.00	0.00	0.0
1900453 1 1,613 1,000 211.82 260,74 263,44 266.15 266.15 266.	MONTEREY PARK	K, CITY OF (1)								
	1900453	1	1,613	1,000	211.82	260.74	263.44	266.15	266.15	266.1

APPENDIX A
PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

III.	WELL	WELL CAP	ACITI	2008-09		TOOLO LED OF	ROUNDWATER	DEMINITED C	
NUMBER	NAME	ACRE-FEET	GPM	PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-1
							1/23		
1900454	2	NA	NA	0.00	0_00	0.00	0.00	0.00	0.0
1900455	3	1,532	950	252.82	311.21	314,44	317,67	317.67	317.6
1900456	4	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1900457	5	2,903	1,800	1,890.25	2,326.82	2,350.94	2,375.11	2,375,11	2,375.1
1900458	6	968	600	0.00	0.00	0.00	0.00	0.00	0,0
1902372	7	1,290	800	417.15	513.49	518.82	524.15	524.15	524.1
1902373	8	2,903	1,800	14.50	17.85	18.03	18.22	18.22	18.2
1902690	9	2,903	1,800	9.00	11.08	11.19	11.31	11.31	11.3
1902818	10	2,903	1,800	1,772.68	2,182.10	2,204.72	2,227.38	2,227.38	2,227.3
1903033	12	3,226	2,000	3,302.19	4,064,86	4,107.00	4.149.22	4,149.22	4,149.
1903092	14								
		1,129	700	0.00	0.00	0.00	0.00	0.00	0.0
8000126	FERN	1,613	1,000	169.24	208_33	210.49	212.65	212.65	212,
8000196	15	3,226	2,000	1,441.58	1,774,53	1,792,92	1,811.35	1,811.35	1,811.
UBTOTAL:		26,211	16,250	9,481.23	11,671.00	11,792.00	11,913.21	11,913,21	11,913.2
AMIMATSU FARM	S INC.								
1901034	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
JBTOTAL:		NA	NA	0.00	0.00	0.00	0,00	0.00	0.0
CK TOMOVICH &	SON								
8000037	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
JBTOTAL:		NA	NA	0,00	0.00	0.00	0.00	0.00	0.0
D. 17 WALNUT PL	ACE MUTUAL	WATER COMPANY	′						
8000038	NA	NA	NA	0.00	0.00	0,00	0.00	0.00	0.0
JBTOTAL:		NA	NA	0.00	0.00	0.00	0,00	0.00	0.0
WL ROCK PRODU	CTS (ROBERT	SON'S READY MIX	()						
1900043	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1902241	NA	3,205	1,987	0.00	0.00	0.00	0.00	0.00	0.0
1903119	NA	NA	NA		0.00	0.00	0.00	0.00	0.0
JBTOTAL:		3,205	1,987	0.00	0.00	0.00	0.00	0.00	0.0
ARK WATER CO.									
1004207	26.4	818	810	0.00	0.00	0.00	0.00	0.00	0.6
1901307	26-A	NA NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
8000039	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
JBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
CO COUNTY WAT	ER DISTRICT								
8000040	NA	NA	NA	0.00	0.00	0,00	0.00	0.00	0.0
JBTOTAL:		NA	NA	0.00	0 00	0,00	0.00	0.00	à.c
OLOPOLUS, ET AI	-								
1902169	1	NA	NA	0.00	0.00	0.00	0.00	0,00	0.0
JBTOTAL:		NA	NA	0.00	0.00	0.00	0,00	0.00	0.0
				AMPUS (QUEEN O		HOSPITAL)			
8000138	NA	NA	NA	25.30	25.00	25.00	25.00	25.00	25.0
JBTOTAL:		NA	NA	25.30	25.00	25.00	25.00	25.00	25.0
		AD ANIM							
CHWOOD MUTUA									
CHWOOD MUTUA 1901521 1901522	1 SOUTH 2 NORTH	NA NA	NA NA	0.00 0.00	0.00	0.00 0.00	0.00	0.00	0.0

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APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

	IAIT!!	WELL CAPA	CITY II	2008-09	PR	OJECTED GRO	UNDWATER D	EMANDS	
RECORDATION NUMBER	NAME	ACRE-FEET	GPM	PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-14
SUBTOTAL:	*	NA	NA	0,00	0.00	0,00	0.00	0,00	0.00
WORKMAN MILL II	NVESTMENT CO	MPANY (RINCON D	ITCH COM	(PANY)					
1902790	4	2,153	1,335	92.29	100_00	100.00	100,00	100.00	100.00
SUBTOTAL:		2,153	1,335	92.29	100,00	100.00	100.00	100,00	100.00
	NVESTMENT CO	OMPANY (RINCON I	RRIGATIO	N COMPANY)					
					0.00	0.00	0.00	0.00	0.00
1900132 11900095	1 2	NA 1,428	NA 885	0.00 0.04	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		1,428	885	0.04	0.00	0.00	0.00	0.00	0.00
WORKMAN MILL I	NVESTMENT CO	OMPANY (ROSE HIL	LS MEMO	RIAL PARK)					
4000050	2	1,192	739	0.05	0.05	0.05	0.05	0.05	0.0
1900052 1900094	3 1	673	417		399.95	399.95	399.95	399.95	399.9
SUBTOTAL:		1,865	1,156	391.90	400.00	400,00	400,00	400.00	400.0
RURBAN HOMES	MUTUAL WATE	R COMPANY (1)							
1900120	1-NORTH	484	300	109.28	59.15	59.15	59.15	59.15	59.1
1900121	2-SOUTH	484	300		59.85	59.85	59,85	59,85	59.8
SUBTOTAL:		968	600	219,84	119.00	119.00	119,00	119.00	119.0
RUTH, ROY									
8000041	NA	NA	NA	0,00	0.00	0.00	0.00	0.00	0.
SUBTOTAL:		NA	N	0,00	0.00	0.00	0,00	0,00	0.
S.L.S. & N. INC.									
8000151	NA	NA	N	A 65.95	70,00	80.00	80.00	80.00	80.
SUBTOTAL:		NA	N	A 65,95	70,00	80.00	80.00	80.00	80.
SAN GABRIEL CO	DUNTRY CLUB								
1900547	1	NA	N.	A 0.14	16,51	16.51	16.51	16.51	16.
1902979	2	750	46		283.49	283,49	283.49	283.49	283.
SUBTOTAL:		750	46	5 296,32	300.00	300,00	300.00	300.00	300.
SAN GABRIEL C	OUNTY WATER	DISTRICT (1)			8				
1901669	5 BRA	1,613	1,00	0.004	0.00	0.00	0.00	0.00	0
1901670	6 BRA	NA	N	Α 0,00	0.00	0.00	0.00	0.00	1 220
1901671	7	1,048	65	0 955.59	1,330.00	1,330.00	1,330.00	1,330.00	1,330
1901672	8	NA	N	A 0.00	0.00	0.00	0.00	0.00	2.100
1902785	9	2,258	1,40		2,100.00	2,100,00	2,100.00	2,100.00	2,100
1902786	10	NA		A 0.00	0.00	0.00	0.00	0.00 1,150.00	1,170
8000067	11	1,532	95		1,090.00	1,110.00	1,130.00	1,830.00	1,850
8000123	12	3,387	2,10		1,770.00	1,790.00	1,810.00 1,335.00	1,355,00	1,37
8000133	14	3,549	2,20	00 1,458,04	1,295.00	1,315.00			
SUBTOTAL:		13,388	8,30	7,042.10	7,585.00	7,645.00	7,705.00	7,765.00	7,82
SAN GABRIEL V	ALLEY WATER	COMPANY (1)						050.00	g e
1900725	G4A	1,855	1,1		B50.00	850.00	850.00	850.00	85
1900733	5A	NA		0.00	0.00	0,00	0.00	0,00)
1902635	B1	1,815	1,1		0.00	0.00	0.00	0.00	
8000112	B5C	3,186	1,9		0,00	0.00	0.00	0.00	
		NA	1	0.00	0.00	0.00	0.00	0.00 550.00	55
					E00.00	500.00	REU UU		
8000038	1B	2,742	1,7		500.00	500.00	550.00		
	1B 1C	2,742 2,452	1,7 1,5		50.00 50.00 0.00	50.00	50.00 0.00	50.00 0.00	50

APPENDIX A
PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION	WELL	WELL CAPA	VCITY 1	2008-09	-	PROJECTED GR	OUNDWATER	DEMANDS	71
NUMBER	NAME	ACRE-FEET	GPM	PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-14
HOMBER	TOTAL	ACKE-FEET	Grivi	TRODUSTION	2009-10	2010-11	2011-12	2012-13	2013-14
18000082	185	NA	NA	0.00	0.00	0.00	0_00	0.00	0.00
18000102	1D	4,678	2,900	1,657,38	350,00	350.00	350.00	350.00	350.00
21900749	2C	1,924	1,193	0.00	0.00	0.00	0.00	0,00	0.00
21902857	2D	3,226	2,000	604.42	350.00	350.00	350,00	350.00	350.00
28000065	2E	4,436	2,750	1,542,85	500.00	500.00	500.00	500.00	500.00
31900736 31900746	8A 8B	NA 2,016	NA 1,250	0,00 285,28	0.00 1,3 50.00	0.00	0.00 1,350.00	0.00	0.00 1,350.00
31900747	8C	2,097	1,300	136.45	1,200.00	1,350.00 1,200.00	1,200.00	1,350.00 1,200.00	1,200.00
31903103	8D	5,000	3,100	1,273.20	1,650.00	1,650.00	1,650.00	1,650.00	1,650.00
38000113	8E	4,839	3,000	63.91	600.00	600.00	600.00	600.00	600.00
41900739	11A	4,436	2,750	2,388,01	325,00	325.00	325,00	325.00	325.00
41900745	11B	2,984	1,850	1,018.11	725,00	725.00	725,00	725.00	725.00
41902713	11C	1,742	1,080	172,58	325,00	325.00	325.00	325.00	325.00
48000083	11B7	NA 0.000	NA	0.00	0.00	0.00	0.00	0.00	0.00
51902858	B4B	3,629	2,250	0.00	0.00 0.00	0.00	0.00	0.00	0.00
51902947 61900718	B4C B5A	3,629 3,065	2,250 1,900	0.00	0.00	0.00 0.00	0.00	0.00	0.00
61900719	B5B	5,323	3,300	3,629.87	5,200.00	5,200.00	5,200.00	5,200.00	5,200.00
71900721	B6B	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
71903093	B6C	3,226	2,000	0,64	50.00	50.00	50.00	50.00	50.00
78000084	B6B2	NA	NA	0,00	0.00	0.00	0.00	000	0.00
78000098	B6D	3,226	2,000	1.28	50.00	50.00	50.00	50.00	50.00
81902525	B2	NA	NA	0,00	0.00	0.00	0.00	0.00	0.00
8000122	B7E	968	600	551,79	300.00	300.00	300.00	300.00	300.00
91901435		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
91901436	B8	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
91901437 91901439	B9 B11A	NA 968	NA 600	0.00	0.00 475.00	0.00	0.00	0.00	0.00 475 ₋ 00
91901439	B7B	NA NA	NA	0.00	0.00	475.00 0.00	475.00 0.00	475_00 0_00	0.00
98000068	B7C	3,791	2,350	2,337.78	1,100.00	1,100.00	1,100.00	1,100.00	1,100.00
98000094	B7D	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
98000099	B9B	1,613	1,000	717.65	500.00	500.00	500.00	500.00	500.00
98000108	B11B	4,033	2,500	1,656.17	875.00	875.00	875.00	875_00	875.00
8000172	1E	5,283	3,275	3,529.18	500.00	500.00	500.00	500.00	500.00
8000160	B5D	4,839	3,000	985,10	200.00	200.00	200.00	200.00	200.00
8000169	8F	5,646	3,500	229,33	200.00	200.00	200.00	200.00	200.00
NA	G4B	NA	NA		0.00	0.00	0.00	0.00	0.00
NA 8000197	1F 2F	NA	NA 7.200	2 272 24	350,00	350.00	350,00	350.00	350.00
NA NA	B11C	NA 3,226	2,200 2,000	2,273.24	500.00 0.00	500.00 0.00	500.00 0.00	500,00 0.00	500.00 0.00
8000203	B24A	4,033	2,500	474.12	850.00	850.00	1,200.00	1,200.00	1,200.00
8000204	B24B	4,033	2,500	610.87	850.00	850.00	1,200.00	1,200.00	1,200.00
8000187	B25A	4,516	2,800	2,104.47	4,400.00	4,400.00	4,400.00	4,400.00	4,400.00
8000188	B25B	4,516	2,800	1,908.90	4,400.00	4,400.00	4,400.00	4,400.00	4,400.00
8000189	B26A	1,774	1,100	1,817.21	1,600.00	1,600.00	1,600.00	1,600.00	1,600.00
8000190	B26B	1,774	1,100	2,152.89	1,600.00	1,600.00	1,600,00	1,600.00	1,600.00
8000205	B5E	5, 5 65	3,450	4,834.72	5,200.00	5,200.00	5,200.00	5,200.00	5,200.00
NA	11D				725.00	725.00	725.00	725.00	725.00
SUBTOTAL:		128,101	81,618	39,520.10	38,700.00	38,700.00	39,450.00	39,450.00	39,450.00
SLOAN RANCHES					Ē				
1901198	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000045	2	NA NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0,00
SIERRA LA VERNE	COUNTRY CLU	В							
0000101				40.74		A	0 : 0-		
8000124	1	NA	NA	19.74	34.82	34.82	34.82	34.82	34.82
8000125 8000192	2 15 OFFSITE	NA NA	NA NA	0.00 12.81	0.00 15.18	0.00 15.18	0.00 15.18	0.00 15.18	0,00 15,18
	13 OFFSITE								
SUBTOTAL:		NA	NA	32.55	50.00	50.00	50.00	50.00	50.00
SIERRA MADRE, C	ITY OF								
8000193	NA	NA	NA	0.38	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.38	0.00	0.00	0.00	0.00	0.00

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APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION	WELL	WELL CAPA		2008-09		ROJECTED GR			
NUMBER	NAME	ACRE-FEET	GPM	PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-14
ONOCO PRODUC	TS COMPANY								
1902786	1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902971	2	NA	NA	132,63	150,00	150,00	150,00	150.00	150,00
UBTOTAL:		NA	NA	132.63	150,00	150,00	150.00	150,00	150.00
OUTH COVINA WA	ATER SERVICE								
1901606	102	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0,00
OUTH PASADENA	A, CITY OF (1)								
1901679	GRAV 2	1,290	800	565.80	782.57	782.57	782.57	782.57	782.57
1901681	2 WIL	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901682	3 WIL	3,387	2,100	3,132.40	2,618.14	2,618.14	2,618.14	2,618.14	2,618.14
1903086	4 WIL	1,774	1,100	1,199.26	1,371.41	1,371.41	1,371,41	1,371,41	1,371,41
SUBTOTAL:		6,452	4,000	4,897.46	4,772.12	4,772.12	4,772,12	4,772.12	4,772.12
SOUTHERN CALIFO	DRNIA EDISON	COMPANY							
1900342	1EB86	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1900343	2EB76	211	131	0.00	0.00	0.00	0.00	0.00	0.00
8000046	110RH	NA	NA	0.43	0.47	0.47	0.47	0.47	0.47
8000047	MURAT	2,420	1,500	109.00	119.53	119,53	119,53	119,53	119.53
11900344	38EIS	1,415	877	0.00	0.00	0.00	0.00	0.00	0.00
21900344	38W	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:		4,045	2,508	109,43	120.00	120.00	120.00	120.00	120,00
GOLDEN STATE W	ATER COMPAN	Y (SOUTHERN CAL	IFORNIA V	VATER COMPANY)	/SAN DIMAS D	ISTRICT (1)			
1902148	BAS-3	968	600	441.76	663.76	663.76	663.76	663.76	663,76
1902149	BAS-4	1,210	750	678,07	1,018.82	1,018.82	1,018.82	1,018.82	1,018.82
1902150	HWY	1,129	700	1,123,04	1,687.40	1,687.40	1,687.40	1,687.40	1,687.40
1902151	ART-1	NA	NA	0,00	0.00	0.00	0.00	0.00	0.00
1902152	ART-2	484	300	0.00	0.00	0.00	0.00	0.00	0.00
1902154	L H-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902266	COL-1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902267	COL-2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902268	COL-4	726	450	0.00	0.00	0.00	0.00	0.00	0.00
1902269	COL-5	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902270	COL-6	686	425	0.00	0.00	0.00	0.00	0.00	0.00
1902271	COL-7	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902272	COL-8	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902286	CITY	323	200	118.03	.177.34	177.34	177.34	177.34	177.34
1902842	ART-3	403	250	480.38	721.78	721.78	721.78	721.78	721.78
31902287	MALON	605	375	486.45	730.90	730.90	730.90	730,90	730.90
SUBTOTAL:		6,533	4,050	3,327.73	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00
SOLDEN STATE W	ATER COMPAN	IY (SOUTHERN CAI	JFORNIA V	VATER COMPANY)	/SAN GABRIEL	DISTRICT (1)			84
1900510	1 S G	1,774	1,100	1,357.27	830,52	832.15	833.79	835.43	837.07
1900511	2 S G	1,452	900	0.00	0.00	0.00	0.00	0.00	0.00
1900512	2 GAR	327	203	0.00	0.00	0.00	0.00	0.00	0.00
1900513	1 GAR	321	199	0.00	0.00	0.00	0.00	0.00	0.00
1900514	3 SAX	565	350	367.50	224.87	225.32	225.76	226.20	226.65
1900515	1 SAX	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
8000146	4 SAX	1,532	950	1,111.61	680.20	681.54	682.88	684.22	685.56
1902144	1 EAR	589	365	0.00	0.00	0.00	0.00	0.00	0.00
4000047	1 JEF	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902017	2 JEF	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902018		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902018 1902019	3 JEF								
1902018 1902019 1902020	1 AZU	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902018 1902019				0.00 687.31	0.00 420.57	0.00 421.40	0.00 422.22	0.00 423.05	0.00 423.88
1902018 1902019 1902020	1 AZU	NA	NA						
1902018 1902019 1902020 1902024	1 AZU 1 ENC	NA 1,936	NA 1,200	687.31	420.57	421.40	422.22	423.05	423.88

APPENDIX A

PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

DECORDATION	ME!	WELL OLD	ACITY II	2008 00		ROJECTED GR	OUNDWATED	DEMANDS	
RECORDATION NUMBER	WELL NAME	ACRE-FEET		2008-09 PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-14
NUMBER	NAME	ACRE-FEET	GPM	PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-11
1902032	1 GID	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902032	1 FAR	1,936	1,200	362.33	221.71	222.15	222.58	223.02	223.46
	2 ENC	968	600	262,33	160.52	160.84	161.15	161,47	161.79
1902035						0.00	0.00	0.00	0.00
1902461	2 GRA	494	306	0.00	0.00				167.00
1902948	2 FAR	1,210	750	270.79	165.70	166.02	166_35	166,68	
8000073	3 ENC	1,048	650	334.76	204.84	205.24	205.65	206.05	206,46
8000111	4 JEF	2,097	1,300	1,785.25	1,092.40	1,094.55	1,096,71	1,098.86	1,101.01
SUBTOTAL:		10,384	6,438	6,631.78	4,058.00	4,066.00	4,074.00	4,082.00	4,090.00
STERLING MUTUAL	WATER COM	PANY		<u></u>					
1902085	SOUTH	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1902096	NORTH	397	246	66.08	81.69	81.69	81.69	81.69	81,69
8000132	NEW SO	NA	NA	55,25	68.31	68,31	68.31	68.31	68.3
SUBTOTAL:		397	246	121.33	150.00	150.00	150.00	150.00	150.00
SUBURBAN WATER	R SYSTEMS (1))							
1900337	152W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
1901429	201W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1901430	201W2	2,049	1,270	0.00	0.00	0.00	0.00	0.00	0.0
1901431	201W3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1901432	201W5	3,123	1,936	0.00	0.00	0.00	0.00	0.00	0.0
1901433	201W4	4,083	2,531	545.46	0.00	0.00	0.00	0.00	0.0
1901434	201W6	3,302	2,047	0.00	0.00	0.00	0.00	0.00	0.0
1901596	147W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
	142W1	NA NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1901597				0.00	0.00	0.00	0.00	0.00	0.0
1901598	139W1	NA	NA					0.00	0.0
1901599	139W2	4,049	2,510	0.00	0.00	0.00	0.00		
1901600	139W3	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1901602	140W1	NA	NA	0,00	0.00	0.00	0.00	0.00	0.0
1901604	148W1	NA	NA	0.00	0,00	0.00	0.00	0.00	0.0
1901608	105W1	NA	NA	0.00	0.00	0.00	0.00	0.00	00
1901609	106W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1901610	111W1	NA	NA	0.00	0.00	0,00	0.00	0.00	0.0
1901611	112W1	NA	NA	0.00	0.00	0,00	0.00	0.00	0.0
1901612	113W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1901613	114W1	NA	NA	0.00	0.00	0.00	0.00	0,00	0.0
1901614	117W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1901615	120W1	NA	NA	0,00	0.00	0.00	0.00	0.00	0.0
			NA	0.00	0.00	0.00	0.00	0.00	0.0
1901616	122W1	NA			0.00	0.00	0.00	0.00	0.0
1901617	123W1	NA	NA	0.00					0.0
1901618	124W1	NA	NA	0.00	0.00	0.00	0.00	0.00	
1901619	125W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1901620	126W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1901621	131W1	NA	NA	0.00	0,00	0.00	0.00	0.00	0.0
1901622	133W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1901623	134W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1901624	135W1	NA	NA	0,00	0.00	0.00	0.00	0.00	0.0
1901625	136W1	NA NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1901625	202W1	NA NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
				0.00	0.00	0.00	0.00	0.00	0,0
1902119	149W1	NA	NA						0.0
1902519	150W1	NA	NA	0.00	0.00	0.00	0.00	0.00	
1902760	147W2	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1902761	153W1	NA	NA	0.00	0.00	0,00	0,00	0.00	0.0
1902762	154W1	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1902763	157W1	NA	NA	0.00	0.00	0,00	0.00	0.00	0.0
1903067	140W3	1,774	1,100	0.00	0.00	0.00	0.00	0.00	00
8000069	139W4	4,749	2,944	0.00	0.00	0.00	0.00	0.00	0.0
8000077	147W3	1,860	1,153	1,568,28	1,687,33	1,687.33	1,687.33	1,687.33	1,687.
			797	0.00	0.00	0.00	0.00	0.00	0_0
8000087	125W2	1,286					0.00	0.00	0.0
8000092	126W2	1,234	765	0.00	0.00	0.00			
8000093	140W4	4,286	2,657	0.00	0.00	0.00	0.00	0.00	0.0
8000145	140W5	6,468	4,010	1,794.05	1,568.17	1,568.17	1,568.17	1,568.17	1,568
8000095	139W5	5,323	3,300	0,00	0.00	0.00	0.00	0.00	0.0
8000152	139W6	5,647	3,501	0,00	0.00	0.00	0.00	0.00	0.0
11902518	151W1	5,162	3,200	0.00	0.00	0.00	0.00	0.00	0.0
11002010			3,200 NA	0.00	0.00	0.00	0.00	0.00	0.0
04000545									
21902518	151W2	NA							
21902518 31902819 31902820	155W1 155W2	NA NA NA	NA NA	0.00	0.00	0.00	0.00	0.00	0.0

APPENDIX A
PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

NUMBER NAME ACRESTECT OPM PRODUCTION 2009-10 2019-11 2011-12 2019-13 2019-14	RECORDATION	WELL	WELL CAPA	CITY	2008-09		PROJECTED G	ROUNDWATER	DEMANDS	
			The second secon		PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-14
4 1910 (200) 4 1301 (201) 4 1301 (201) 4 1301 (201) 4 1301 (201) 4 1301 (201) 5 121 (201)	140,110,211		Home, and							
## 1910 1939 1939 1939 1938	41901605	101W1	NA	NA	0.00				7.	0.00
			NA	NA	0.00	0,00	0.00			
				2.247	1,864,67	2,630.26	2,630.26	2,630.26		
						3.806.13	3,806,13	3,806.13	3,806.13	3,806.13
								4.188.51	4,188.51	4,188.51
SOURCE S									3.868.67	3,868.67
SOUCH SOUCH SOUTH SOUT	8000198	201W8								
SUBTOTAL: B0.371 49.827 27.08163 24.86.94 2.489.84 2.489.84 2.489.84 2.489.84 2.489.84 2.489.85 2.489.85 20.8050 28.662.50	8000207	151W2	5,162							
SUBTOTAL: 80.371 89.672 27.081.63 28.662.50	8000208									2,489.84
SUBTOTALE SUBT		201W10	NA							
1900028	SUBTOTAL:		80,371	49,827	27,081.63	28,662.50	28,662.50	28,002,50	20,002,30	20,002.00
1900/086	SUNNY SLOPE WA	TER COMPAN	Y (1)							
1907792	1900026	8	2,932	1,818	1,007.60					1,294.07
Monopole		9	3.094	1,918	1,456,47	1,513.75	1,621.87			
SOUD-167 13 3,080 1,897 627,36 652,05 688,60 746,16 791,75 695,05 SUBTOTAL: 9,086 5,633 3,091,43 3,213,00 3,442,50 3,672,00 3,901,50 3,970, TEXACO INC.						0.00	0.00	0.00		0.00
SUBTOTAL: 9,086 5,833 3,091,43 3,213,00 3,442,50 3,672,00 3,901,50 3,970. TEXACO INC. TEXACO INC. 1900001 14 519 322 0,00 0,00 0,00 0,00 0,00 0,00 0,00							698.60	745.18	791.75	805.72
TEXACO INC. 1500001 14 519 322 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8000157	13	3,000	1,007	021.00	002.00	000100			
1990001 14	SUBTOTAL:		9,086	5,633	3,091,43	3,213,00	3,442,50	3,672.00	3,901.50	3,970.35
SUBTOTAL: \$19 322 0.00 0.00 0.00 0.00 0.00 0.00 0.00	TEXACO INC.									
TYLER NURSERY 800049 NA NA NA NA 0.00 0.00 0.00 0.00 0.00 0.	1900001	14	519	322	0,00	0,00	0.00	0.00	0.00	0.00
SUBTOTAL: NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00	SUBTOTAL:		519	322	0.00	0,00	0.00	0.00	0,00	0.00
SUBTOTAL: NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00	TYLER NURSERY									
UNITED CONCRETE PIPE CORPORATION 8000067 NA NA NA NA 0.00 0.00 0.00 0.00 0.00 0.	8000049	NA	NA	NA	0.00	0.00	0,00	0.00	0.00	0.00
NA	SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
B000087 NA		E PIPE CORPO	ORATION							
SUBTOTAL: NA NA NA NA O.00 O.0	8000067	NA	NA	N.A	0.00	0.00	0.00	0.00	0,00	0.00
UNITED ROCK PRODUCTS CORPORATION 1902532 SIERRA NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.	SUBTOTAL:		NA	N.F	0.00	0.00	0.00	0,00	0.00	0.00
1900106 IRW-1 NA NA NA 264.38 285.76 317.52 349.27 381.02 317.1902532 SIERRA NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00		ODUCTS COR	PORATION							
1900106	ONLINE HOURT							240.27	201.02	317.52
1902532 SIERRA NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1.903062 1RW-2 NA NA NA 568.27 614.24 682.48 750.73 818.98 662 682 682.48 750.73 818.98 662 682 682.48 750.73 818.98 662 682 682 682.48 750.73 818.98 662 682 6	1900106	JRW-1	NA	N/	264.3					
1903062 IRW-2				N/	Q. 0.0	0.00	0.00	0.00		0.00
SUBTOTAL: NA NA B32.65 900.00 1,000.00 1,100.00 1,200.00 1,000. UNITED STATES ENVIRONMENTAL PROTECTION AGENCY NA EW4-3 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0							4 682.48	750.73	818.98	682.48
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY NA EW4-3 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0		11777-2				5 900.00	1.000.00	1,100.00	1,200.00	1,000.00
NA EW4-3 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0					302.0		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
NA EW4-4 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0	UNITED STATES	ENVIRONMENT	AL PROTECTION A	GENCI						
NA EW4-4 NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00	ALA.	E-MA-3	NΔ	N.	Α 0.0	0.0	0.00	0.00		0.00
NA EW4-8 NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00								0.00	0.00	0.0
NA EW4-9 NA NA NA 0.00 0.00 0.00 0.00 0.00 0.00									0.00	0.00
SUBTOTAL: 0 0 0 0.00 0.00 0.00 0.00 0.00 0.00 0										0.00
VALENCIA HEIGHTS WATER COMPANY (1) 8000051	NA	EW4-9	NA	N.	Α 0.0	0.0	0,00	0.00	0.00	1
8000051 1 524 325 992.44 206.82 226.70 228.30 23 8000052 2 526 326 0.00 236.36 236.36 259.09 260.91 26 8000054 4 NA NA NA 0.00 265.91 265.91 291.48 293.52 29 8000055 3A 205 127 0.00 0	SUBTOTAL:		0		0.0	0.0	0.00	0.00	0.00	0.00
8000051 1 524 325 392.44 2002 2052 36.36 259.09 260.91 26 8000052 2 526 326 0.00 236.36 236.36 259.09 260.91 26 8000054 4 NA NA NA 0.00 265.91 265.91 291.48 293.52 29 8000055 3A 205 127 0.00 0.00 0.00 0.00 0.00 0.00 8000120 5 1,613 1,000 0.00 590.91 590.91 647.73 652.27 66 8000180 6 1,331 825 SUBTOTAL: 4,199 2,603 992.44 1,300.00 1,300.00 1,425.00 1,435.00 1,466 VALECITO WATER COMPANY 1901435 1 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1,000 1	VALENCIA HEIGH	ITS WATER CO	MPANY (1)							
8000051 1 524 325 392.44 2002 202.63.6 259.09 260.91 26 8000052 2 526 326 0.00 236.36 236.36 259.09 260.91 26 8000054 4 NA NA NA 0.00 265.91 265.91 291.48 293.52 29 8000055 3A 205 127 0.00 0.00 0.00 0.00 0.00 0.00 8000120 5 1,613 1,000 0.00 590.91 590.91 647.73 652.27 66 8000180 6 1,331 825 SUBTOTAL: 4,199 2,603 992.44 1,300.00 1,300.00 1,425.00 1,435.00 1,466 VALECITO WATER COMPANY 1901435 1 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1,0				20	6 003	M OUE O	2 206.83	226.70	228.30	232.2
8000052 2 526 325 0.00 265.91 291.48 293.52 29 8000054 4 NA NA 0.00 265.91 291.48 293.52 29 8000055 3A 205 127 0.00 0.00 0.00 0.00 0.00 0.00 8000120 5 1,613 1,000 0.00 590.91 590.91 647.73 652.27 66 8000180 6 1,331 825 SUBTOTAL: 4,199 2,603 992.44 1,300.00 1,300.00 1,425.00 1,435.00 1,466 VALECITO WATER COMPANY 1901435 1 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1901436 2 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0										265.4
8000054 4 NA NA 0.00 265.91 265.91 291.48 293.52 29 8000055 3A 205 127 0.00 0.00 0.00 0.00 0.00 0.00 8000120 5 1,613 1,000 0.00 590.91 590.91 647.73 652.27 66 8000180 6 1,331 825 SUBTOTAL: 4,199 2,603 992.44 1,300.00 1,300.00 1,425.00 1,435.00 1,46 VALECITO WATER COMPANY 1901435 1 NA NA 0.00 0.00 0.00 0.00 0.00 1,000 1,	8000052	2	526							298.6
8000055 3A 205 127 0.00 0.00 0.00 0.00 0.00 0.00 8000 800			NA	N						
8000120 5 1,613 1,000 0.00 590.91 590.91 647.73 652.27 66 8000180 6 1,331 825 SUBTOTAL: 4,199 2,603 992,44 1,300.00 1,300.00 1,425.00 1,435.00 1,46 VALECITO WATER COMPANY 1901435 1 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 1901436 2 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0						0.0				0.0
8000180 6 1,331 825 SUBTOTAL: 4,199 2,603 992,44 1,300,00 1,300,00 1,425.00 1,435,00 1,466 VALECITO WATER COMPANY 1901435 1 NA NA 0.00 0.00 0.00 0.00 0.00 1901436 2 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0							1 590.91	647.73	652.27	663,6
SUBTOTAL: 4,199 2,003 532,44 7,5000 7										
1901435 1 NA NA 0.00 0.00 0.00 0.00 0.00 1901436 2 NA NA 0.00 0.00 0.00 0.00 0.00 0.00 0.0	SUBTOTAL:		4,199	2,60	992.4	1,300,0	0,300,00	1,425.00	1,435,00	1,460.0
1901435 1 NA NA 0.00 0.00 0.00 0.00 0.00 1901436 2 NA NA 0.00 0.00 0.00 0.00 0.00	VALECITO WATE	R COMPANY								
1901436 2 NA NA 0.00 0.00 0.00 0.00 0.00	1001425	4	NA	K	IA 0.0	0.0	0.00	0.00	0.00	0.0
1901436 2 NA 194 0.00 0.00 0.00 0.00 0.00									0.00	0.0
1901437 3 NA NA 0.00 0.00 0.00 0.00										0.0
	1901437	3	NA	N	IA 0,1	0.0	0,01	0.00	5.50	340

APPENDIX A
PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION	WELL	WELL CAPA	CITY	2008-09		PROJECTED GI	ROUNDWATER		
NUMBER	NAME	ACRE-FEET	GPM	PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-1
1001100			N1.6	0.00	0.00	5.00	0.00	0,00	0.0
1901438	4	NA	NA	0.00 0.00	0.00	0.00	0.00	0.00	0.00
1901439 1901440	5 6	NA NA	NA NA	0.00	0.00	0.00	0.00	0.00	0.00
1901440	Б	NA	IVA	0.00	0.00	0.00	0.00	0.00	0,01
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
ALLEY COUNTY	WATER DISTRICT	T (1)							
1900027	E MAIN	3,387	2,100	2,022.04	2,057,33	2,077.86	2,098.87	2,119.76	2,140.9
1900028	W MAIN	2,178	1,350	1,020.62	1,038.43	1,048,79	1,059.40	1,069.94	1,080.6
1900029	MORADA	1,936	1,200	0.00	0.00	0.00	0.00	0.00	0,0
1900031	PADDY	2,360	1,463	0.00	0.00	0.00	0.00	0.00	0.0
1900032	E NIXON (JOAN)	5,162	3,200	3,101.49	3,155.62	3,187.10	3,219,33	3,251.38	3,283.8
1900034	ARROW	4,839	3,000	0,00	0.00	0.00	0.00	0.00	0.0
1900035	B DAL	4,839	3,000	0.00	0.00	0.00	0.00	0.00	0.0
1901307	11	NA	NA NA	0.00	0.00	0.00	0.00	0.00	0.0
1902356	(NAOL) NOXIN W	5,242	3,250	2,318.08	2,358,54	2,382.07	2,406.16	2,430.11	2,454.3
8000039	PALM	1,194	740	0.00	0.00	0.00	0.00	0_00	0.0
8000060	LANTE (SA1-3)	5,484	3,400	3,528,56	3,590.15	3,625.96	3,662.63	3,699.09	3,735.9
8000185	SA1-1	5,484	3,400	1,587.17	1,614.87	1,630.98	1,647.48	1,663,87	1,680.4
8000186	SA1-2	3,871	2,400	2,973.16	3,025.05	3,055.23	3,086,13	3,116.85	3,147.9
SUBTOTAL:		45,975	28,503	16,551,12	16,840.00	17,008.00	17,180.00	17,351.00	17,524.0
	JTUAL WATER CO	·	20,000	19 001112	10,01010	.,,======			
			4=0	10.00	40.00	40.00	40.00	43_08	43.0
1900363	1	768	476	42,00	43.08	43.08	43.08		600.9
1900364	2	310	192	585.88	600.92	600.92	600,92	600.92 0.00	0.0
1900365	3	NA	NA	0.00	0.00	0.00	0.00		
SUBTOTAL:		1,077	668	627.88	644.00	644.00	644_00	644.00	644.0
VIA TRUST									
1903012	1	NA	NA	0.00	0,00	0.00	0,00	0.00	0.0
SUBTOTAL:		NA	NA	0.00	0.00	0,00	0_00	0.00	0.0
VIETNAMESE AM	ERICAN BUDDHIS	T TEMPLE							
8000191	NA	NA	NA	3.32	3,00	3.00	3.00	3.00	3.0
SUBTOTAL		NA	NA	3.32	3.00	3.00	3.00	3.00	3.0
WHITTIER, CITY	OF (1)								
				2.00	2.00	0.00	0.00	0.00	0.0
1901745	9	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1901746	10	NA	NA	0.00	0.00	00.0	0.00	0.00	0.0
1901747	11	NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
1901748	12	NA	NA 1 100	0,00	0.00	0.00	0.00	0.00	0.0 791.7
1901749	13	1,774	1,100	856.94	791.72	791.72	791.72	791.72	791.
8000021	FROM	NA	NA	0.00	0.00	0.00	0.00	0.00 447.66	447.0
8000071	15	5,968	3,700	484.54	447.66	447.66	447.66		4,057.
8000110	16	5,968	3,700	4,391.38	4,057.17	4,057.17	4,057:17	4,057.17	4,057.
8000135	17	6,452	4,000	0.00	0.00	0,00	0.00	0.00	
8000136	18	6,452	4,000	0.00	0.00	0.00	0.00	0.00	0.0
8000200	EW4-5	4,355	2,700	845.18	780.86	780.86	780.86	780.86	780.0
8000201	EW4-6	4,516	2,800	906.34	837.36 535,23	837,36 535,23	837.36 535.23	837.36 535.23	837.1 535.1
8000202	EW4-7	4,516	2,800	579,32					
SUBTOTAL:		26,615	16,500	8,063.70	7,450.00	7,450.00	7,450.00	7,450.00	7,450.0
WILMOTT, ERMA	м.								
8000006	1	NA	NA	0,00	0.00	0.00	0.00	0.00	0.0
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0.00	0.00	0.0
WOODLAND, RIC	HARD								
				0.00	0.00	0.00	0.00	0.00	^ /
1902949 1902950	1 2	NA NA	NA NA	0,00 0.00	0.00	0.00	0.00	0.00 0.00	0.0

APPENDIX A PROJECTED GROUNDWATER DEMANDS FROM 2009-10 TO 2013-14

RECORDATION	RECORDATION WELL		ACITY	2008-09	PROJECTED GROUNDWATER DEMANDS					
NUMBER	NAME	ACRE-FEET	GPM	PRODUCTION	2009-10	2010-11	2011-12	2012-13	2013-14	
SUBTOTAL:		NA	NA	0.00	0.00	0.00	0,00	0.00	0.00	
COINER, JAMES W.	DBA COINE	R NURSERY (WOO	DLAND FAR	MS INC.)						
1902951 1903072	3 5R	NA NA	NA NA	0.00 91.87	0.00 90.00	0,00 90.00	0.00 90.00	0.00 90.00	0.00 90.00	
SUBTOTAL:		NA	NA	91.87	90.00	90.00	90.00	90.00	90.00	
ATOT	L	673,021	420,948	236,715.72	248,348.25	253,249.18	256,432.89	258,189.90	259,397.7	

NOTES :

GROUNDWATER PRODUCTION AND DEMANDS IN ACRE-FEET GPM: GALLONS PER MINUTE NA: NOT AVAILABLE (1) PROJECTED GROUND-WATER DEMANDS PROVIDED BY PRODUCER

APPENDIX B.

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SIMULATED CHANGES IN GROUNDWATER ELEVATIONS AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

APPENDIX B

SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR	RECORDATION	WELL	SIMULATED	ELEVATION (1)	CHANGE (2)	REMARKS
WELLFIELD	NUMBER	STATUS	2008-09	2013-14	(FEET)	KCWAKAS
ADAMS RANCH N	UTUAL WATER (COMPANY				
01 02 03	1902106 1902689 8000182	INACTIVE INACTIVE ACTIVE	177.37	177.59	0.22	
ALHAMBRA, CITY	OF					
MOEL (08)	1900010	ACTIVE	140,59	139.21	-1.38	PRODUCTION INCREASED
09	1900011	ACTIVE	136.63	135.30	-1.33	PRODUCTION INCREASED
10	1900012	ACTIVE	142.06	140.87	-1.19	PRODUCTION INCREASED
12	1900013	INACTIVE	141.07	140.25	-0,82	
13	1900014	ACTIVE	146.37	145.26	-1.11	PRODUCTION INCREASED
14	1900015	ACTIVE	138.69	135,88	-2,81	PRODUCTION INCREASED
15	1900016	ACTIVE	150.22	149.06	-1.16	PRODUCTION INCREASED
LON 1 LON 2	1903014 1900017	ACTIVE ACTIVE	132.50	126.99	-5.51	PRODUCTION INCREASED
GARF	1900018	INACTIVE	140.59	140.16	-0.43	
11	1903014	ACTIVE	139.59	137.53	-2.06	PRODUCTION INCREASED
07	1903097	STANDBY	140.09	138.50	-1.59	PRODUCTION INCREASED
AMARILLO MUTUA	AL WATER COMP.	ANY				
01 02	1900791 1900792	ACTIVE ACTIVE	171.89	170,31	-1.58	PRODUCTION INCREASED
ARCADIA, CITY OF	:					
LON 1	1901013	ACTIVE	210.52	209.08	-1.44	PRODUCTION INCREASED
LON 2	1901014	ACTIVE	210.93	209.02	-1.91	PRODUCTION INCREASED
CAM REAL 1 CAM REAL 2	1902077 1902078	INACTIVE INACTIVE	204,83	204.85	0.02	
ST JO 2	8000177	ACTIVE	208,94	209.06	0.12	
BAL 2	1902791	ACTIVE	186.42	186,08	-0.34	1
PECK 1	1902854	ACTIVE	207.09	207.96	0.87	
L OAK 1	8000127	ACTIVE	201.93	203,93	2.00	PRODUCTION REDUCED
AZUSA, CITY OF (A	ZUSA AGRICULT	URE WATER CO	MPANY, AZUSA	VALLEY WATER	COMPANY)	
05 (01)	1902533	ACTIVE	596.66	596.07	-0.59	
06 (03)	1902535	ACTIVE	598.31	597.32	-0,99	
GENESIS 1 (04)	1902536	DESTROYED	258,14	258.13	-0.01	
GENESIS 2 (05)	1902537	DESTROYED	253.10	253.08	-0.02	
GENESIS 3 (06)	1902538	DESTROYED	258.92	258.92	0.00	

APPENDIX B
SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

		I was	SIMULATED ELEVATION (1)		OHANGE (0)	DEMARKS
WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	2008-09	2013-14	CHANGE (2) (FEET)	REMARKS
01 (07)	8000072	ACTIVE	614,58	612.56	-2.02	PRODUCTION INCREASED
03 (08)	8000086	ACTIVE	615.85	615.22	-0.63	
02 (1 NORTH)	1902457	ACTIVE	613.83	613.12	-0.71	
04 (2 SOUTH)	1902458	ACTIVE	612.37	611.54	-0,83	
AVWC 01	1902113	DESTROYED	238.08	238.00	-0.08	
AVWC 02	1902114	DESTROYED	245.11	245.09	-0.02	
08 (AVWC 04)	1902115	ACTIVE	597.10	596.15	-0.95	
07 (AVWC 05)	1902116	ACTIVE	595.96	595.12	-0.84	
09 (AVWC 06)	1902117	INACTIVE	254.02	254.02	0.00	
10 (AVWC 08)	8000103	ACTIVE	252.87	252.86	-0.01	
11	8000178	ACTIVE	619.77	618.86	-0,91	
12	8000179	ACTIVE	625.11	624.77	-0.34	
BASELINE WATE	R COMPANY					
01 02	1901200 1901201	INACTIVE INACTIVE	973.77	973.47	-0.30	
03	1901202	INACTIVE	976.76	976.49	-0.27	
CALIFORNIA-AME	ERICAN WATER CO	OMPANY/DUAR	TE SYSTEM			
STA FE	1900354	ACTIVE	227.50	227.02	-0.48	
BV	1900355	ACTIVE	224,07	223.70	-0.37	
MT AVE	1900356	DESTROYED	222.33	222.08	-0.25	
FISH C	1900358	ACTIVE	622.78	621.69	-1.09	PRODUCTION INCREASED
WILEY	1902907	ACTIVE	605.91	603.92	-1.99	PRODUCTION INCREASED
CR HV	1903018	ACTIVE	231.02	230.11	-0.91	
ENCANTO	8000139	ACTIVE	610.40	609.09	-1.31	PRODUCTION INCREASED
LAS L2	8000140	ACTIVE	604.23	603.33	-0.90	
BACON	1900497	ACTIVE	605.92	605.29	-0.63	
CALIFORNIA-AMI	ERICAN WATER C	OMPANY/SAN N	IARINO SYSTE	EM		
GUESS	1900918	ACTIVE	174.35	174.28	-0.07	
MIVW 2	1900920	ACTIVE	174.99	174.69	-0.30	
RIC 1	1900921	INACTIVE	165.43	165.06	-0.37	
IVAR 1	1900923	ACTIVE	177.09	176.27	-0.82	
GRAND	1900926	ACTIVE	167.19	166.92	-0.27	
ROSEMEAD	1900927	ACTIVE	166.27	165.96	-0.31	

APPENDIX B
SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR	RECORDATION	WELL	SIMULATED	SIMULATED ELEVATION (1)		T
WELLFIELD	NUMBER	STATUS	2008-09	2013-14	CHANGE (2) (FEET)	REMARKS
BOANOGE					——————————————————————————————————————	
ROANOKE	1900934	ACTIVE	139.79	139,14	-0.65	
LONGDEN	1900935	ACTIVE	135,53	132.54	-2.99	IMPACT FROM SGCWD EXTRACTION
BR 1	1901441	INACTIVE	190.37	190.27	-0.10	
HOWLAND	1902424	ACTIVE	186.68	186,65	-0.03	
BR 2	1902787	INACTIVE	188.44	188.29	-0,15	
MAR 3	1903019	ACTIVE	184,29	184.03	-0.26	
DELMAR	1903059	ACTIVE	131.49	128,55	-2.94	PRODUCTION INCREASED
HALL 2	8000175	ACTIVE	190,93	190.78	-0.15	
CALIFORNIA COL	JNTRY CLUB					
ARTES	1902531	STANDBY	213.00	213.53	0.53	
SYCAMORE	1903084	STANDBY	212.75	213.25	0.50	
CALIFORNIA DON	ESTIC WATER CO	MPANY				
02	1901181	ACTIVE	206.59	203.92	-2.67	PPODLICTION INCDEAGED
06	1902967	ACTIVE	204.08	200.06	-4.02	PRODUCTION INCREASED
03	1903057	ACTIVE	202.41	198.12	-4.29	PRODUCTION INCREASED
08	1903081	ACTIVE	208.51	206.57	-1.94	PRODUCTION INCREASED
05A	8000100	ACTIVE	205.10	201.39		PRODUCTION INCREASED
14	8000174	ACTIVE	205.84	202.62	-3.71	PRODUCTION INCREASED
CHAMPION MUTUA	AL WATER COMPA	NY		202.02	-3.22	PRODUCTION INCREASED
02	1902816	ACTIVE	212,14	245.00		
03	8000121	ACTIVE		215.26	3.12	IMPACT FROM SGVWC EXTRACTION
VULCAN MATERIA	LS COMPANY (CAI	LMAT COMPAN	Y)			
DUR E DUR W	1902920 8000063	ACTIVE ACTIVE	225.82	225.63	-0.19	
REL 1	1903088	ACTIVE	239.76	239.32	-0.44	4
COVINA, CITY OF						4.
01	1901685	INACTIVE	272.54	272,51	-0.03	
02 (GRAND)	1901686	ACTIVE	361.22	361.21	-0.01	
COVINA IRRIGATIN	G COMPANY					
CONTR	1900881	STANDBY	252.24	252.23	-0.01	
BAL 3	1900882	ACTIVE	231.41	231.04	-0.37	
BAL 1	1900885	ACTIVE	231.67	231.15	-0.52	
BAL 2	1900883	ACTIVE		201110	-U_UZ	
VALEN	1900880	INACTIVE	509.07	509.06	-0.01	

APPENDIX B
SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR WELLFIELD	RECORDATION	WELL	SOMED A LED ELL			REMARKS		
WELLHELD	NUMBER	STATUS	2008-09	2013-14	CHANGE (2) (FEET)			
	NOWBER							
CROWN CITY PLAT	TING COMPANY							
	8000012	ACTIVE	185.76	185.77	0.01			
01		,						
DEL RIO MUTUAL		ACTIVE	208.13	209.11	0.98			
BURKETT	1900331	ACTIVE	200110					
DRIFTWOOD DAIR	ťΥ		107.40	197.55	0,45			
01	1902924	ACTIVE	197.10	197.55	01.10			
EAST PASADENA	WATER COMPAN	Y, LTD.			* 80			
09	1901508	ACTIVE	176.81	175,98	-0.83			
EL MONTE, CITY	OF							
02A	1901692	ACTIVE	196.39	196.25	-0.14			
03	1901693	INACTIVE	197,97	197.89	-0.08			
04	1901694	INACTIVE	199.18	199.08	-0.10			
05	1901695	INACTIVE	194.42	194.39	-0.03			
	1901699	STANDBY	200.42	200.28	-0.14			
10		DESTROYED	207.04	207.71	0.67			
MT VW	1902612		193.55	193.33	-0.22			
12	1903137	STANDBY		193.50	-0.22			
13	8000101	ACTIVE	193.72	100.00				
GLENDORA, CIT	Y OF				0.45			
11-E	1900826	ACTIVE	547.38	547.23	-0.15	PRODUCTION INCREASED		
08-E	1900829	ACTIVE ACTIVE	604.15	600.41	-3.74	PRODUCTION MORE ASE		
09-E 12-G	1900830 1900827	ACTIVE						
10-E	1900828	ACTIVE	554.11	553.95	-0.16			
07-G	1900831	INACTIVE	252.89	252.88	-0.01			
01-E	1901523	ACTIVE	562.55	562.27	-0.28	T		
13-E	8000184	ACTIVE						
02-E	1901526	ACTIVE	563.46	563.22	-0.24			
03-G 04-E	1901525 1901524	INACTIVE INACTIVE		247.25	-0.01			
05-E	8000149	ACTIVE	609.79	607.32	-2.47	PRODUCTION INCREASED		
HARTLEY, DAV	/ID							
NA	8000085	ACTIVE	660.65	660.62	-0_03			
	TUAL WATER COM	/PANY						
NORTH SOUTH	1901178 1902806	ACTIVE ACTIVE	214.84	215.99	1.15	IMPACT FROM SGVWC EXTRACTIC		

APPENDIX B

SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR	RECORDATION	WELL	SIMULATED	ELEVATION (1)	CHANGE (2)	REMARKS
WELLFIELD	NUMBER	STATUS	2008-09	2013-14	(FEET)	
INDUSTRY WATE	RWORKS SYSTEM	, CITY OF				
01 03 04	1902581 8000078 8000096	INACTIVE STANDBY ACTIVE	214.38	213,36	-1.02	IMPACT FROM BPOU EXTRACTION
02 05	1902582 8000097	INACTIVE ACTIVE	214,79	213.72	-1.07	BPOU EXTRACTION
LA PUENTE VALL	EY COUNTY WATE	R DISTRICT				
02 04	1901460 8000062	ACTIVE ACTIVE	224,56	223.68	-0.88	
03 05	1902859 NA	ACTIVE ACTIVE	223.93	224.67	0.74	
HANSON AGGRE	GATES WEST, INC.	(LIVINGSTON-C	GRAHAM)			
EL 4	1903006	ACTIVE	222.20	221.89	-0.31	
EL 1 EL 3	1901492 1901493	ACTIVE ACTIVE	222.57	222.10	-0.47	
LOS ANGELES, C	OUNTY OF					
KEY WELL	3030F	MONITORING	228,71	228.63	-0.08	
WHI 1	1902579	ACTIVE	181.61	181.86	0.25	
02	1902580	ACTIVE	188.74	188.74	0.00	
03A	8000150	ACTIVE	181.15	180.70	-0.45	
04	1902664	ACTIVE	179.75	178.86	-0.89	
05	1902665	ACTIVE	178.55	177.16	-1.39	IMPACT FROM BPOU EXTRACTION
06	1902666	INACTIVE	178.05	177.21	-0.84	
SF 1	8000070	ACTIVE	235,20	235.13	-0.07	
BIG RED	8000088	ACTIVE	192,99	192.80	-0.19	
NEW LAKE	8000089	ACTIVE	179.26	179,69	0.43	
MILLER BREWERI	ES WEST, L.P. (MIL	LER BREWING	COMPANY)			T.
01	8000075	ACTIVE	237.35	237.20	-0.15	1
02	8000076	ACTIVE	236.85	236.64	-0.21	
MONROVIA, CITY (OF .			*1		
02 03	1900418 1900419	ACTIVE ACTIVE	208.82	207.40	-1.42	PRODUCTION INCREASED
04	1900420	ACTIVE	214.32	213.20	-1.12	PRODUCTION INCREASED
05	1940104	ACTIVE	210.39	208.86	-1.53	PRODUCTION INCREASED
06	8000171	ACTIVE	209.08	207-67	-1-41	PRODUCTION INCREASED
IONROVIA NURSE	RY					

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APPENDIX B

SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR	RECORDATION	WELL	SIMULATED E	LEVATION (1)	CHANGE (2)	REMARKS
WELLFIELD	NUMBER	STATUS	2008-09	2013-14	(FEET)	
DIV 4	1902456	ACTIVE	509.07	509.06	-0.01	
MONTEREY PARI	K, CITY OF					
01	1900453	ACTIVE	164.30	162.50	-1.80	PRODUCTION INCREASED
03	1900455	ACTIVE	158.35	156.10	-2.25	PRODUCTION INCREASED
05	1900457	ACTIVE	149.22	145.44	-3.78	PRODUCTION INCREASED
06	1900458	ACTIVE	160.03	157.94	-2.09	PRODUCTION INCREASED
07	1902372	ACTIVE	176.79	175.39	-1.40	PRODUCTION INCREASED
08	1902373	ACTIVE	178,74	177.35	-1.39	PRODUCTION INCREASED
09	1902690	ACTIVE	176,53	175.08	-1.45	PRODUCTION INCREASED
10	1902818	ACTIVE	146.18	143,28	-2,90	PRODUCTION INCREASED
12	1903033	ACTIVE	174.30	172,44	-1.86	PRODUCTION INCREASED
14	1903092	ACTIVE	172.85	171.86	-0.99	
FERN	8000126	ACTIVE	158.18	155.90	-2.28	PRODUCTION INCREASED
15	8000196	ACTIVE	178.32	176.89	-1.43	PRODUCTION INCREASED
OWL ROCK PRO	DUCTS COMPANY					
NA	1902241	ACTIVE	226.47	226.33	-0.14	
NA	1903119	ACTIVE	617.74	616.01	-1.73	IMPACT FROM AZUSA EXTRACTION
POLOPOLUS ET	AL.					
01	1902169	INACTIVE	229.85	229.73	-0.12	
CITRUS VALLEY	MEDICAL CENTER	R, QUEEN OF T	HE VALLEY CAM	PUS (QUEEN OF	THE VALLEY HOS	SPITAL)
NA	8000138	ACTIVE	230.79	230.55	-0.24	
WORKMAN MILL	. INVESTMENT COM	MPANY (RINCO	N DITCH COMPA	NY) .		
04	1902790	ACTIVE	. 183.23	183:57	0.34	
WORKMAN MILL	. INVESTMENT COM	MPANY (RINCO	N IRRIGATION C	OMPANY)		Ĭ
02	1900095	ACTIVE	185.01	185,21	0.20	,
WORKMAN MILL	. INVESTMENT COM	MPANY (ROSE	HILLS MEMORIA	L PARK)		
03	1900052	ACTIVE	184.05	184.32	0.27	
01	1900094	ACTIVE	182.02	182.29	0.27	
RURBAN HOME	S MUTUAL WATER	COMPANY				
NORTH 1 SOUTH 2	1900120 1900121	ACTIVE ACTIVE	215.89	217.44	1.55	IMPACT FROM SGVWC REDUCTION
SAN GABRIEL C	OUNTRY CLUB					
01	1900547	ACTIVE	142.84	140.41	-2.43	IMPACT FROM SGCWD EXTRACTION

APPENDIX B
SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

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WELL OR	RECORDATION	WELL		ELEVATION (1)	CHANGE (2)	REMARKS
WELLFIELD	NUMBER	STATUS	2008-09	2013-14	(FEET)	
02	1902979	ACTIVE				
AN GABRIEL CO	OUNTY WATER DIS	TRICT				
05 BRA	1901669	ACTIVE	171,37	171.35	-0.02	
07	1901671	ACTIVE	135.16	130.80	-4.36	PRODUCTION INCREASED
08	1901672	INACTIVE	138.91	138,46	-0.45	
09	1902785	ACTIVE	150.91	150.22	-0.69	
10	1902786	INACTIVE	158.59	158.13	-0.46	
11	8000067	ACTIVE	160,61	159.39	-1.22	PRODUCTION INCREASED
12	8000123	ACTIVE	161.23	160.61	-0.62	
14	8000133	ACTIVE	150.43	150.14	-0.29	
AN GABRIEL VA	LLEY WATER COM	PANY				
G4A	1900725	ACTIVE	170.91	169.19	-1.72	PRODUCTION INCREASED
B1	1902635	ACTIVE	200.46	200.50	0.04	
B5A B5B	1900718 1900719	ACTIVE INACTIVE	209.08	206.85	-2.23	BPOU EXTRACTION
B5C	8000112	ACTIVE				
B5D	8000160	ACTIVE	209.62	207.93	-1.69	IMPACT FROM BPOU EXTRACTION
B5E	NA	PLANNED	209.18	207.19	-1.99	BPOU EXTRACTION
B25A B25B	8000187 8000188	ACTIVE ACTIVE	212,32	203.37	-8.95	BPOU EXTRACTION
B26A B26B	8000189 8000190	ACTIVE ACTIVE	218.32	218.59	0.27	
8A 8B 8C 8E	1900736 1900746 1900747 8000113	INACTIVE ACTIVE ACTIVE ACTIVE	180,22	177.98	-2.24	PRODUCTION INCREASED
8D 8F	1903103 8000169	ACTIVE ACTIVE	179.99	178.22	-1.77	PRODUCTION INCREASED
1B 1C 1D 1E	1900729 1902946 8000102 8000172	ACTIVE ACTIVE ACTIVE ACTIVE	204.94	212,38	7.44	PRODUCTION REDUCED
2C 2D 2E 2F	1900749 1902857 8000065 8000197	ACTIVE ACTIVE ACTIVE ACTIVE	199,22	201.13	1.91	PRODUCTION REDUCED
11A 11B	1900739 1900745	ACTIVE ACTIVE	204.85	209.24	4.39	PRODUCTION REDUCED
11C	1902713	ACTIVE	207.96	209.66	1.70	PRODUCTION REDUCED
B4B B4C	1902858 1902947	ACTIVE ACTIVE	219.52	217.35	-2.17	IMPACT FROM BPOU EXTRACTION

APPENDIX B
SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR	RECORDATION	WELL	SIMULATED E	LEVATION (1)	CHANGE (2)	REMARKS
WELLFIELD	NUMBER	STATUS	2008-09	2013-14	(FEET)	
U _{II}						
B6C B6D	1903093 8000098	ACTIVE ACTIVE	225.17	224.78	-0.39	
B7C B7E	8000068 8000122	ACTIVE ACTIVE	218.71	220.34	1.63	PRODUCTION REDUCED
B2	1902525	INACTIVE	199,56	199.53	-0.03	
B11A B11B B11C	1901439 8000108 NA	ACTIVE ACTIVE PLANNED	219.11	219.95	0.84	
B9B	8000099	ACTIVE	220.80	221.52	0.72	
B24A B24B	8000203 8000204	ACTIVE ACTIVE	220.98	220.13	-0.85	
SIERRA LA VERN	IE COUNTRY CLUB					
01	8000124	ACTIVE	1076.22	1075.86	-0.36	
02	8000125	ACTIVE	1096,19	1095.90	-0.29	
SONOCO PRODU	ICTS COMPANY					
01 02	1912786 1902971	ACTIVE ACTIVE	217.39	216_52	-0.87	
SOUTHERN CAL	FORNIA EDISON C	OMPANY				
110RH	8000046	ACTIVE	225.75	225.60	-0.15	
2EB76	1900343	ACTIVE	220.96	221.46	0.50	
MURAT	8000047	ACTIVE	169.07	168.03	-1.04	IMPACT FROM BPOU EXTRACTION
GOLDEN STATE	WATER COMPANY	(SOUTHERN C	ALIFORNIA WAT	ER COMPANY)/S	SAN DIMAS DISTR	ICT
BAS-3	1902148	ACTIVE	897.67	894.71	-2.96	PRODUCTION INCREASED
BAS-4	1902149	ACTIVE	879.57	876.35	-3.22	PRODUCTION INCREASED
HIGHWAY	1902150	ACTIVE	889.11	884.13 -	-4.98	PRODUCTION INCREASED
ART-2	1902152	ACTIVE	896,31	893!61	-2.70	PRODUCTION INCREASED
ART-3	1902842	ACTIVE	883,65	879.76	-3.89	PRODUCTION INCREASED
COL-4	1902268	ACTIVE	536.00	536.00	0.00	
COL-6	1902270	ACTIVE	534.49	534.49	0.00	
COL-7	1902271	ACTIVE	566.92	566.92	0.00	
COL-8	1902272	INACTIVE	745.32	745.20	-0.12	
CITY	1902286	ACTIVE	1029.32	1028.51	-0.81	
MALON	1902287	ACTIVE	995.90	994.45	-1.45	PRODUCTION INCREASED
GOLDEN STATE	WATER COMPANY	(SOUTHERN	CALIFORNIA WA	TER COMPANY)/	SAN GABRIEL VA	LLEY DISTRICT
S G 1 S G 2	1900510 1900511	ACTIVE	146.09	146.20	0,11	

APPENDIX B

SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELLOB	WELL OR RECORDATION WELL SIMULATED ELEVATION (1) CHANGE (2) DEMARKS									
WELL OR WELLFIELD	RECORDATION NUMBER	WELL STATUS	2008-09	2013-14	CHANGE (2) (FEET)	REMARKS				
-			£000-03	2013-14	(LEE1)					
CADA	1000510									
GAR 1 GAR 2	1900513 1900512	ACTIVE ACTIVE	160,97	159.22	-1.75	IMPACT FROM SEMOU EXTRACTION				
		NOTIVE								
SAX 1 SAX 3	1900515	ACTIVE	153.92	155.09	1.17	PRODUCTION REDUCED				
SAX 4	1900514 8000146	ACTIVE ACTIVE								
		NOTIVE								
EARL 1	1902144	ACTIVE	169.03	167.57	-1.46	IMPACT FROM SEMOU EXTRACTION				
JEF 1	1902017	INACTIVE	209.13	208.80	0.22					
JEF 3	1902019	INACTIVE	200,10	200.00	-0.33					
JEF 4	8000111	ACTIVE								
AZU 1	1902020	DESTROYED	193,14	400.05	0.44					
. 120	1302020	DESTROTED	193,14	193.25	0.11					
ENC 1	1902024	ACTIVE	175.72	176.32	0.60					
ENC 2	1902035	ACTIVE	174.60	475.40	0.70					
ENC 3	8000073	ACTIVE	174.62	175.18	0.56					
DED 4										
PER 1	1902027	STANDBY	197.08	197.57	0.49					
GRA 1	1902030	STANDBY	216.02	215,76	-0.26					
GRA 2	1902461			210,70	0,20					
GID 1	1902032	DESTROYER	400.00	400.00						
GID 2	1902031	DESTROYED	193.26	193,29	0.03					
FAR 1	1902034	ACTIVE	205.75	206.90	1.15	PRODUCTION REDUCED				
FAR 2	1902948	ACTIVE	204.67	205,77	1.10	PRODUCTION REDUCED				
COUTURACADEN	4 OITV OF				,,,,,	THOSOSTION NEDGOES				
SOUTH PASADEN	A, CITY OF									
GRAV 2	1901679	ACTIVE	137.89	136.31	-1.58	PRODUCTION INCREASED				
18/11 0	1001001					. HODGO HOIT INGINE INGE				
WIL 2	1901681	ACTIVE	136.46	136.39	-0.07					
WIL 3	1901682	ACTIVE	134.34	134.41	0.07					
WIL 4	1903086	ACTIVE								
STERLING MUTUA	L WATER COMPA	NY								
NEW SO. NORTH	8000132	ACTIVE	210.17	211.16	0.99					
NORTH	1902096	ACTIVE		4						
SUBURBAN WATE	R SYSTEMS					,				
114W-1	1901613	INIACTIVE	247.00	0.17.00		Ð.,				
11444-1	1901013	INACTIVE	247.90	247.86	-0.04					
121W-1	8000181	ACTIVE	233.24	232.51	-0.73					
125W-2	8000087	INACTIVE	263,36	000.00						
72077 2	0000001	INACTIVE	203.36	263.36	0.00					
126W-2	8000092	INACTIVE	266.85	266.86	0.01					
139W-2	1901599	ACTIVE	220.02	000.04						
139W-4	8000069	ACTIVE	230.93	230.84	-0.09					
400)										
139W-5 139W-6	8000095	INACTIVE	230.64	230.56	-0.08					
10944-0	8000152	INACTIVE								
140W-3	1903067	ACTIVE	224.37	224.60	0.23					
140W-4	8000093	ACTIVE								

APPENDIX B
SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR	RECORDATION	WELL	SIMULATED E	LEVATION (1)	CHANGE (2)	REMARKS	
WELLFIELD	NUMBER	STATUS	2008-09	2013-14	(FEET)		
140W-5	8000145	ACTIVE					
142W-2	8000183	ACTIVE	229.88	229.35	-0.53		
147W-3	8000077	ACTIVE	219.70	219,95	0.25		
151W-2	8000207	ACTIVE	225.49	225.05	-0.44		
155W-1	1902819	INACTIVE	262.86	262.86	0.00		
201W-2	1901430	ACTIVE	178.43	179.03	0.60		
201W-4 201W-9	1901433 8000208	ACTIVE ACTIVE	175.82	177.47	1.65	PRODUCTION REDUCED	
201W-5	1901432	ACTIVE	180.30	181.02	0.72		
201W-6	1901434	ACTIVE	184.47	184.26	-0.21		
201W-7	8000195	ACTIVE	176.40	177.26	0.86		
201W-8	8000198	ACTIVE	178.09	178.62	0.53		
201W-10	NA	ACTIVE	184.67	182.70	-1.97	PRODUCTION INCREASED	
SUNNY SLOPE V	NATER COMPANY						
08 09	1900026 1902792	ACTIVE ACTIVE	160.22	158.35	-1.87	PRODUCTION INCREASED	
10	8000048	INACTIVE	175.59	175.33	-0.26		
13	8000157	ACTIVE	163.20	162.11	-1.09	PRODUCTION INCREASED	
TYLER NURSER	Υ						
NA	8000049	ACTIVE	193.69	193.65	-0.04		
UNITED CONCR	ETE PIPE CORPOR	ATION					
NA	8000067	INACTIVE	226.16	225.96	-0.20		
UNITED ROCK I	PRODUCTS CORPO	RATION					
IRW-1	1900106	ACTIVE	224,10	223.74	-0.36		
IRW-2	1903062	ACTIVE	223.38	222.94	-0.44		
UNITED STATE	S ENVIRONMENTAL	L PROTECTION A	AGENCY			1	
MW4-1	NA	MONITORING	179.32	179.76	0.44	SOUTH EL MONTE OPERABLE UN	
MW4-2	NA	MONITORING	181.32	181.48	0.16		
MW4-3	NA	MONITORING	179.23	179.64	0.41		
MW4-4	NA	MONITORING	170.54	170.56	0.02		
MW4-5	NA	MONITORING	171.11	171.13	0.02		
MW4-6	NA	MONITORING	171.68	171.70	0.02		
MW4-7	NA	MONITORING	183,98	183.96	-0.02		
					0.01		

APPENDIX B

SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR	RECORDATION	WELL	SIMULATED	ELEVATION (1)	CHANGE (2)	REMARKS
WELLFIELD	NUMBER	STATUS	2008-09	2013-14	(FEET)	
MW4-9	NA	MONITORING	188,77	188.71	-0.06	
MW4-10	NA	MONITORING	196.71	196.63	-0.08	
MW4-11	NA	MONITORING	204.51	204.73	0.22	
MW5-1	NA	MONITORING	232.87	232,65	-0.22	BALDWIN PARK OPERABLE UNIT
MW5-3	NA	MONITORING	237.09	237.01	-0.08	
MW5-5	NA	MONITORING	226.24	226.08	-0.16	
MW5-8	NA	MONITORING	226.25	226.15	-0.10	
MW5-11	NA	MONITORING	237.16	237.09	-0.07	
MW5-13	NA	MONITORING	241.34	241.29	-0.05	
MW5-15	NA	MONITORING	228.47	228.41	-0.06	
MW5-17	NA	MONITORING	237.79	237.73	-0.06	
MW5-18	NA	MONITORING	239.33	239.28	-0.05	
MW5-19	NA	MONITORING	210.34	208.53	-1.81	IMPACT FROM BPOU EXTRACTION
MW5-20	NA	MONITORING	223.23	222.90	-0.33	
MW5-22	NA	MONITORING	216.58	215.55	-1.03	IMPACT FROM BPOU EXTRACTION
MW5-23	NA	MONITORING	217.14	214.81	-2.33	IMPACT FROM BPOU EXTRACTION
MW6-1	NA	MONITORING	221.00	220,91	-0.09	PUENTE VALLEY OPERABLE UINT
MW6-2	NA	MONITORING	214.09	214.26	0.17	
MW6-4	NA	MONITORING	226.64	226.65	0.01	
MW6-5	NA	MONITORING	228.62	228.61	-0.01	
MW6-6	NA	MONITORING	236.68	236.67	-0.01	
MW6-7	NA	MONITORING	317.41	317.41	0.00	
MW6-8	NA	MONITORING	427.35	427.36	0.00	
EW4-3	NA	REMEDIAL	182.00	182.15	0.15	WNOU EXTRACTION
EW4-4	NA	REMEDIAL	180.09	180.36	0.27	WNOU EXTRACTION
EW4-5 EW4-9	8000200 NA	REMEDIAL REMEDIAL	179.03	179.42	0.39	WNOU EXTRACTION
EW4-6 EW4-10	8000201 NA	REMEDIAL REMEDIAL	178,74	179.23	0.49	WNOU EXTRACTION
EW4-7	8000202	REMEDIAL	179.70	179.96	0.26	WNOU EXTRACTION
EW4-8	NA	REMEDIAL	181.93	182.07	0.14	WNOU EXTRACTION
VALENCIA HEIG	HTS WATER COM	PANY				
01 02	8000051 8000052	ACTIVE ACTIVE	276.36	277.52	1.16	

APPENDIX B SIMULATED CHANGES IN GROUNDWATER ELEVATION AT WELLS OR WELLFIELDS IN MAIN SAN GABRIEL BASIN

WELL OR	RECORDATION	WELL	SIMULATED	ELEVATION (1)	CHANGE (2)	REMARKS
WELLFIELD	NUMBER	STATUS	2008-09	2013-14	(FEET)	
04	8000054	ACTIVE	264.53	264.05	-0.48	
05	8000120	ACTIVE	294.46	293,33	-1.13	PRODUCTION INCREASED
ALLEY COUNTY	WATER DISTRICT					
E MAINE	1900027	ACTIVE	226.43	226.20	-0.23	
W MAINE	1900027	ACTIVE	220,43	220,20	-0.23	
MORADA	1900029	STANDBY	242.54	242,50	-0.04	
MORADA	1900029	STANDBI	242.54	242,50	-0.04	
E NIXON (JOAN)	1900032	ACTIVE	224.50	224.19	-0.31	
W NIXON (JOAN)	1902356	ACTIVE				
ARROW	1900034	INACTIVE	231.02	230.81	-0.21	
LANTE (SA1-3)	8000060	ACTIVE				
PALM	8000039	INACTIVE	227.61	227.56	-0.05	
B DALTON	1900035	INACTIVE	229.43	229.37	-0.06	
PADDY LN	1900031	STANDBY	227.06	226,96	-0.10	
SA1-1	8000185	ACTIVE	233.52	233,36	-0.16	
SA1-2	8000186	ACTIVE	231.80	231.60	-0.20	
ALLEY VIEW MU	TUAL WATER COM	IPANY				
01	1900363	ACTIVE	225.82	225.63	-0.19	
02	1900364	ACTIVE	220.02	225,00	0.10	
WHITTIER, CITY O	F					
13	1901749	ACTIVE	182.44	182.53	0.09	
15	8000071	ACTIVE	179.67	180.08	0.41	
16	8000110	ACTIVE	177.75	178.35	0.60	
17	8000135	ACTIVE	171.70	110.00	0.00	
18	8000136	ACTIVE	179.08	179,63	0.55	
VOODLAND, RICH	HARD			*		
0.4	4000040	INIA OTILIT	040.00	040.70	4.00	INDIANT FROM BROWEVER A STICLE
01 02	1902949 1902950	INACTIVE	213.86	212.78	-1.08	IMPACT FROM BPOU EXTRACTION
						1
COINER, JAMES V	N., DBA COINER N	JRSERY (WOC	DLAND FARM II	NC.)		
03	1902951	INACTIVE	213.90	212.90	-1.00	IMPACT FROM BPOU EXTRACTION
05R	1903072	ACTIVE	214.96	214.57	-0.39	
	-			*	HILL W.	

⁽¹⁾ SIMULATED ELEVATION IN FEET ABOVE MEAN SEA LEVEL (2) DIFFERENCE BETWEEN 2013-14 AND 2008-09 SIMULATED ELEVATIONS

APPENDIX C.

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HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS AND NITRATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

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	RECORDATION			CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)					PENADKO
VELL NAME	NUMBER	USAGE	STATUS	CONTAMINANT	HISTORI		MOSTR	ECENT	REMARKS
				OF CONCERN	VALUE	DATE	VALUE	DATE	
DAMS RANCI	H MUTUAL WATER	COMPANY							
01	1902106	MUNICIPAL	INACTIVE	TCE	2.2	05/88	ND	02/97	VULNERABLE
01	7002100	MOMON AL	II W IO II V E	NO3	97.0	04/92	38.9	02/97	(NO3)
				CLO4	NA	NA	NA	NA	()
02	1902689	MUNICIPAL	INACTIVE	TCE	3.5	08/86	2.5	09/86	VULNERABLE
-	1002000	1110111011712	110101112	NO3	NA	NA	NA	NA	(VOCS)
				CLO4	NA	NA	NA	NA	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
03	8000182	MUNICIPAL	ACTIVE	TCE	18.5	11/06	4.2	05/09	VULNERABLE
				PCE	5.1	11/06	1.7	05/09	(VOCS) (1)
				NO3	21.0	03/04	13.0	05/09	
				CLO4	ND	08/08	ND	08/08	
HAMBRA, C	ITY OF								
07	1903097	MUNICIPAL	ACTIVE	TCE	13,4	08/91	6.1	02/09	VULNERABLE
				PCE	0.8	04/07	ND	02/09	(NO3) (1)
				C-1,2-DCE	1.6	02/05	0.7	02/09	, , , ,
				CTC	0.6	02/85	ND	02/09	
				NO3	53.2	07/93	43.9	08/07	
				CLO4	2.4	10/07	ND	04/09	
09	1900011	MUNICIPAL	ACTIVE	TCE	21.1	08/08	21.1	08/08	VULNERABLE
				C-1,2-DCE	2.3	10/07	2.1	10/08	(NO3) (3)
				NO3	57.3	06/93	35.9	08/07	
				CLO4	2.2	10/07	ND	04/09	
10	1900012	IRRIGATION	ACTIVE	TCE	30.1	02/09	30.1	02/09	
				C-1,2-DCE	5.8	03/05	3.6	02/09	
				1,1-DCE	0.5	03/05	ND	02/09	
				NO3 CLO4	56.3 ND	01/07 08/97	51.0 ND	02/09 08/97	
4.4	4000044								10000001010
11	1903014	MUNICIPAL	ACTIVE	PCE	1.9	08/02	1.1	10/08	VULNERABLE
				TCE C-1,2-DCE	4.2 1.5	05/89	ND 1.5	08/08	(VOCS AND NO3) (3)
				NO3	41.3	04/08 07/90	1.5 29.0	04/08 09/06	
				CLO4	ND	08/97	ND	04/09	
12	1900013	MUNICIPAL	INACTIVE	TCE	39.4	08/08	39,4	08/08	VULNERABLE
12	1300013	MOMON AL	(ACTIVE	C-1,2-DCE	33.6	08/08	33.6	08/08	(NO3) (3)
				1,1-DCE	0.8	09/08	0.8	09/08	(1100) (0)
				T-1,2-DCE	0.9	09/08	0.7	09/08	
				NO3	34.1	08/89	32.0	08/08	
				CLO4	ND	08/08	ND	08/08	
13	1900014	MUNICIPAL	ACTIVE	TCE	0.5	08/07	0.5	10/07	VULNERABLE
				NO3	52.0	08/01	18.0	10/07	(NO3)
				CLO4	ND	03/97	ND	04/09	3
14	1900015	MUNICIPAL	ACTIVE	TCE	2.4	08/08	2.1	10/08	VULNERABLE
				NO3	42.4	08/89	16.0	10/08	(NO3)
				CLO4	ND	08/97	ND	04/09	
15	1900016	MUNICIPAL	ACTIVE	vocs	ND	05/89	ND	11/08	
				NO3	18.0	11/02	5,9	04/07	
				CLO4	ND	08/97	ND	04/09	
GARF	1900018	MUNICIPAL	INACTIVE	TCE	11.0	08/82	ND	09/93	VULNERABLE
				PCE	0.5	11/87	ND	09/93	(VOCS)
				CTC	0,1	04/80	ND	09/93	
				1,1,2,2-PCA	1.0	11/87	ND	09/93	
				NO3	68.1	08/89	53.6	09/93	
				CLO4	NA	NA	NA	NA	
LON 1	1902789	MUNICIPAL	ACTIVE	PCE	0.3	07/81	ND	08/08	VULNERABLE
				NO3	23.0	09/04	17.0	09/08	(NO3 AND CLO4)

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION	USAGE		CONCENTRA	TION (NO3	THERS I	UG/L)			
WELL NAME	NUMBER		STATUS	CONTAMINANT HISTORIC HIGH MOST RECENT				REMARKS		
				OF CONCERN	VALUE	DATE	VALUE	DATE		
				GLO4	5.0	12/97	ND	04/09		
LON 2	1900017	MUNICIPAL	ACTIVE	MC	4.3	05/07	NIPS	2010-		
			7.07172	NO3	50.4	05/87 04/86	ND 20,3	08/08 08/07	VULNERABLE	
				CLO4	5.6	07/97	ND	04/09	(VOCS, NO3, AND CLO4)	
MOEL (8)	1900010	MUNICIPAL	ACTIVE	TCE	111	07/00	44.4			
			7.01172	PCE	14.1 1.6	07/08 07/08	14.1 1.6	07/08 07/08		
				C-1,2-DCE	0.9	04/04	0.9	07/08		
				NO3	76.0	07/08	76.0	07/08		
				CLO4	ND	12/99	ND	04/09		
MARILLO MUT	TUAL WATER CON	PANY								
01	1900791	MUNICIPAL	ACTIVE	PCE	5_5	10/99	1.7	05/09	VIII NEDADI E	
				TCE	1.2	02/08	ND	05/09	VULNERABLE (VOCS AND NO3)	
				CTC	0.1	08/82	ND	08/08	(1000 AND NO3)	
				MC	3.2	06/89	ND	08/08		
				NO3 CLO4	27.4 ND	10/99	24.0	05/09		
02	4000700				IND	08/97	ND	08/08		
02	1900792	MUNICIPAL	ACTIVE	PCE	5.7	02/02	3,7	05/09	VULNERABLE	
				TCE MC	1.5 2.0	01/99	ND	05/09	(VOCS AND NO3)	
				NO3	29.9	06/89 02/96	ND 17_0	08/08		
				CLO4	ND	08/97	ND	05/09 08/08		
DERSON FA	MILY MARITAL TRI	JST								
01	8000079	DOMESTIC	INIACTIVE	110.00						
	3000070	BOWLSTIC	INACTIVE	VOCS NO3	NA	NA	NA	NA	- F	
				CLO4	NA NA	NA NA	NA NA	NA NA		
CADIA, CITY	OF					.,,		1974		
BAL 1	1901015	MUNICIPAL	INACTIVE	11000						
	1001010	MONGIFAL	INACTIVE	VOCS NO3	ND	09/98	ND	09/98	VULNERABLE	
				CLO4	52.0 NA	04/78 NA	3,0 NA	09/98 NA	(NO3)	
BAL 2	1002704	MINIODA			, , ,	1474	NA	IVA		
DAL 2	1902791	MUNICIPAL	ACTIVE	VOCS	ND	05/89	ND	06/09	VULNERABLE	
				NO3 CLO4	33.4 ND	05/08	29.0	06/09	(NO3)	
MADEAL 4	400000			0104	ND	08/97	ND	07/08		
AM REAL 1	1902077	MUNICIPAL	INACTIVE	VOCS	ND	01/85	ND	05/92	VULNERABLE	
				NO3 CLO4	28.1	05/91	22.4	08/92	(NO3)	
MADEALS	40000			OLO4	NA 🕾	NA	NA	NA		
AM REAL 2	1902078	MUNICIPAL	INACTIVE	VOCS	ND	05/89	ND	06/98	VULNERABLE	
				NO3	58.0	05/92	39.0	05/98	(NO3)	
				CLO4	ND	08/97	ND	12/97	1	
L OAK 1	8000127	MUNICIPAL	ACTIVE	PCE	1.4	01/08	ND	06/09		
				TCE	1.6	12/08	1.4	06/09		
				NO3	21.5	03/91	17.0	06/09		
				CLO4	ND	08/97	ND	07/08		
LGY	1902084	MUNICIPAL	INACTIVE	CF	1.0	01/08	1,0	01/08	VULNERABLE	
				NO3	104.0	01/08	104.0	01/08	(CLO4)	
				CLO4	6.0	01/08	6.0	01/08	. ,	
LON 1	1901013	MUNICIPAL	ACTIVE	TCE	30.0	07/87	0.7	06/09	VIII NEDADI E	
				PCE	2.7	07/87	ND	06/09	VULNERABLE (VOCS AND NO3) (1)	
				1,1-DCE	4.1	06/87	ND	06/09	(10007110100)(1)	
				1,2-DCA	1.4	07/87	ND	06/09		
				1,1,1-TCA MC	4.6	07/87	ND	06/09		
					25.0	09/87	ND	06/09		
				NO3	40.0	11/02	37.0	06/09		

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

				CONCENTRA	TION (NO3	IN MG/I O	THERS IN	HG/L)	
WELL NAME	RECORDATION	USAGE	STATUS	CONTAMINANT	HISTOR			RECENT	DEMARKS
	NUMBER			OF CONCERN	VALUE	DATE	VALUE	DATE	REMARKS
LON 2	1901014	MUNICIPAL	ACTIVE	TCE	62.0	01/85	0.7	00.00	
			7101112	PCE	7.7	01/82	0.7 ND	03/08	VULNERABLE
				CTC	2,6	09/87	ND	03/08	(VOCS) (1)
				1,1-DCE	0.9	05/87	ND	06/07	
				1,1,1-TCA	12.0	01/85	ND	03/08	
				NO3	109.1	05/85		06/07	
				CLO4	ND	07/97	48.6 ND	03/08 06/03	
PECK 1	1902854	MUNICIDAL	A O.T. 1.5	140.00					
FEOR	1902034	MUNICIPAL	ACTIVE	VOCS NO3	ND 3.4	05/89	ND 3.5	06/09	
				CLO4	ND	02/88 08/97	2.5 ND	06/09 07/08	
ST JO 1	1902358	MUNICIPAL	DESTROYED	TCE	5.4	01/02	4.0		
	1002000	WOITION AL	DESTROTED	PCE	2.7	08/91	4.8 2.2	02/02	
				NO3	60.0	06/96	46.0	02/02 06/02	
				CLO4	1.0	08/97	ND	01/02	
ST JO 2	8000177	MUNICIDAL	A CITILIE	TOF					
5, 30 2	0000177	MUNICIPAL	ACTIVE	TCE PCE	2.3	12/04	1.8	06/09	VULNERABLE
				NO3	3.5	06/09	3.5	06/09	(VOCS AND CLO4)
				CLO4	51.0	12/04	49.0	06/09	
				CLO4	8.6	06/02	ND	07/08	
ATTALLA, MAR	RY L.								
NA	8000119	IRRIGATION	ACTIVE	vocs	ND	09/96	ND	0.4700	
	0010110	, i i i ci i i i ci i	AOTIVE	NO3	19.4	04/98	19.4	04/98	
				CLO4	ND	04/98	ND	04/98 04/98	
A71104 A0000							110	04/50	
AZUSA ASSOC	JATES LLC								
DALTON	1900390	IRRIGATION	DESTROYED	VOCS	ND	03/98	ND	03/98	
				NO3	4.7	03/98	4.7	03/98	
				CLO4	ND	03/98	ND	03/98	
AZUSA, CITY O	F								
05	1902533	MUNICIPAL	ACTIVE	TOF	4.0				
(OLD 01)	1802333	MONGIFAL	ACTIVE	TCE PCE	1.0	12/80	ND	08/08	VULNERABLE
(0000)				CF	0.3 1.5	12/80	ND	08/08	(NO3)
				NO3	22.9	08/04 07/95	1.3	08/08	
				CLO4	ND	07/93	7.1 ND	08/08 08/08	
06	4000505	***						00/00	
(OLD 03)	1902535	MUNICIPAL	ACTIVE	VOCS	ND	03/85	ND	08/08	
(OLD 03)				NO3	14.2	03/95	3.7	08/08	
				CLO4	ND	07/97	ND	08/08	
GENESIS 1	1902536	MUNICIPAL	DESTROYED	MTBE	1.2	11/98	1.1	11/98	
(OLD 04)				NO3	126.6	06/87	109.8	11/98	
				CLO4	7.2	11/98	7.2	11/98	
GENESIS 2	1902537	MUNICIPAL	INACTIVE	TCE	250.0	12/79	2.7	00/00	VALL MEDIAN E
(OLD 05)			HATOTIVE	PCE	95.0	04/80	3.7	02/08	VULNERABLE
,				1,1-DCE	18.0	02/08	1.0 18.0	02/08	(NO3)
				CF	2,6	02/08	2.6	02/08 02/08	
				1,1,1-TCA	2.5	02/08	2.5	02/08	
				NO3	105.5	02/93	15.9	02/08	
				CLO4	ND	11/98	ND	02/08	
GENESIS 3	1902538	MUNICIPAL	DESTROYED	PCE	3.5	03/97	ND	02/07	
(OLD 06)		orrion AL	SECTIONED	TCE	0.1	03/97	ND	03/97 03/97	
				NO3	112.9	06/86	ND	03/97	
				CLO4	NA	NA	ND NA	NA	
01	8000072	MUNICIPAL	ACTIVE	vocs	ND				
(OLD 07)	0000012		COLIVE	NO3	4.5	06/87 07/97	ND	11/08	
				CLO4	ND	07/97	3.8 ND	08/08 08/08	
					=		110	JU/JU	
(OLD 08)	8000086	MUNICIPAL	ACTIVE	VOCS	ND	06/87	ND	08/08	
(OLD 08)				NO3	4.4	03/95	ND	08/08	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	DEAGNE - TIGHT			CONCENTRA	TION (NO3 IN	MG/L, O	THERS IN I	JG/L)	
WELL NAME	RECORDATION	USAGE	STATUS	CONTAMINANT	HISTORIC		MOSTR	THE RESERVE	REMARKS
	NUMBER			OF CONCERN	VALUE	DATE	VALUE	DATE	TEMAKKO
				CLO4	ND	07/97	ND	08/08	
02	1902457	MUNICIPAL	ACTIVE	vocs	ND	06/89	ND	08/08	
(01 NORTH)	1002101	WOITION 71E	NOTIVE	NO3	5.5	03/92	3.6	08/08	
,				CLO4	ND	07/97	ND	08/08	
04	1902458	MUNICIPAL	ACTIVE	vocs	ND	06/00	NID	00/00	
(02 SOUTH)	1302430	WONGIFAL	ACTIVE	NO3	ND 5.5	06/88 06/89	ND 2.8	08/08	
(,				CLO4	ND	07/97	ND	08/08	
AVWC 01	1902113	MUNICIPAL	DESTROYED	vocs	ND	09/97	NID	00/07	
7,77,007	1002110	MONION AL	DESTROTES	NO3	55.0	08/87	ND 32.1	09/97 09/97	
				CLO4	5.6	09/97	5.6	09/97	
AVWC 02	1902114	MUNICIPAL	DESTROYED	VOCS	ND	04/00			
AV 170 02	1302114	WONCIFAL	DESTRUTED	NO3	ND 43,1	01/98 01/98	ND 43,1	01/98 01/98	
				CLO4	6.9	01/98	6.9	01/98	
O.B.	4000445	LH IN II O I DAY							
08 (AVWC 04)	1902115	MUNICIPAL	ACTIVE	TCE CF	0.8 0.5	03/94 08/04	ND ND	08/08 08/08	
V				NO3	12.1	09/94	3.7	08/08	
				CLO4	ND	07/97	ND	08/08	
07	1902116	MUNICIPAL	ACTIVE	vocs	ND	06/88	ND	08/08	VULNERABLE
(AVWC 05)		MONTON AL	NOTIVE	NO3	24.7	04/95	2.4	08/08	(NO3)
				CLO4	ND	06/97	ND	08/08	(1100)
09	1902117	MUNICIPAL	INACTIVE	PCE	7.4	12/87	0.6	04/00	VALINEDADLE
(AVWC 06)	1002111	MONION AL	INACTIVE	NO3	117.7	12/89	0.6 84.0	01/99 01/99	VULNERABLE (VOCS)
, ,	-			CLO4	NA	NA	NA	NA	(4003)
AVWC 07	1902425	MUNICIPAL	DESTROYED	TCE	4.5	01/80	ND	03/85	
		MOTON TIE	DECINOTED	NO3	107.0	02/77	39.4	12/85	
				CLO4	NA	NA	NA	NA	
10	8000103	MUNICIPAL	ACTIVE	PCE	0.9	02/09	0.7	05/09	
(AVWC 08)	-		,,,,,,,	CF	1.4	03/94	ND	11/08	
				NO3	66.0	05/08	57.0	05/09	
				CLO4	12.6	08/05	11.0	05/09	
11	8000178	MUNICIPAL	ACTIVE	vocs	ND	06/02	ND	08/08	
				NO3	3.7	08/08	3.5	10/08	
				CLO4	ND	06/02	ND	80/80	
12	8000179	MUNICIPAL	ACTIVE	vocs	ND	06/02	ND	08/08	
				NO3	3.9	08/08	3.6	10/08	
				CLO4	ND *	06/02	ND	08/08	
B & B RED-I-MI	X CONCRETE INC.		(2		, K				
03	1902589	INDUSTRIAL	INACTIVE	vocs	NA	NA	ALA	NIA	
	1002000	INDOCTRIAL	IIVACTIVE	NO3	NA	NA	NA NA	NA NA	1
				CLO4	NA	NA	NA	NA	,
BANKS, GALE	& VICKI								
NA	1900415	IRRIGATION	ACTIVE	vocs	ND.	08/96	ND	10/08	
	1000110		AOTHE	NO3	20.7	10/98	16.0	10/08	
				CLO4	ND	09/97	ND	09/97	
BASELINE WA	TER COMPANY								
01	1901200	IRRIGATION	DESTROYED	vocs	ND	02/98	ND	02/98	
			SECTIONED	NO3	99.7	02/98	99.7	02/98	
				CLO4	12,9	02/98	12.9	02/98	
02	1901201	IRRIGATION	DESTROYED	vocs	ND	11/00	NID	11/00	
V.E	1001201	HANDATION	DEGINOTED	NO3	ND 74,3	11/98 11/98	ND 74.3	11/98 11/98	
				CLO4	10.6	11/98	10.6	11/98	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION	HEADE	CTATIO	CONCENTRA						
TILLE TOAINE	NUMBER	USAGE	STATUS	CONTAMINANT	HISTOR	IC HIGH	MOST	RECENT	REMARKS	
				OF CONCERN	VALUE	DATE	VALUE	DATE		
00	1001000									
03	1901202	IRRIGATION	DESTROYED	VOCS	NA	NA	NA	NA		
				NO3	NA	NA	NA	NA		
				CLO4	NA	NA	NA	NA		
BEVERLY ACR	ES MUTUAL WATE	R USERS ASSO	CIATION							
ROSE HILLS	8000004	MUNICIPAL	DESTROYED	TCE.	8.4	10/88	2.5	03/93		
				PCE	6.0	10/88	2.8	03/93		
				C-1,2-DCE	8.0	08/86	2.4	03/93		
				NO3	22.5	08/86	14.6	09/90		
				CLO4	NA	NA	NA	NA		
BIRENBAUM, M	AX									
NA	8000005	NON-POTABLE	INACTIVE	vocs	NA	NA	NA	NA		
				NO3	NA	NA	NA	NA		
				CLO4	NA	NA	NA	NA		
BOTELLO WATE	ER COMPANY									
NA	1900635	MUNICIPAL	INACTIVE	vocs	NA	NA	NA	NA		
				NO3	NA	NA	NA	NA		
				CLO4	NA	NA	NA	NA		
URBANK DEVE	LOPMENT COMP	ANY								
BURB	1900093	NON-POTABLE	INACTIVE	vocs	NA	NA	NA	110		
				NO3	NA NA	NA	NA NA	NA NA		
				CLO4	NA	NA	NA	NA		
ALIFORNIA-AN	IERICAN WATER	COMPANY/DUA	RTE SYSTEM							
BV	1900355	MUNICIPAL	ACTIVE	vocs	ND	00105				
		MOTHOL AL	AOTIVE	NO3	ND 3.6	02/85	ND	09/08		
				CLO4	ND	08/90 06/97	2.7 ND	09/08		
BACON	1900497	MUNICIPAL	ACTIVE	B.F.						
	1000 101	MONIOIFAL	ACTIVE	BF DBCM	1.8	09/08	1.8	09/08		
				MC	1.0 0.6	10/06 06/89	ND	09/08		
				NO3	10.0	10/81	ND 7.5	09/08 09/08		
				CLO4	ND	06/97	ND	06/08		
CR HV	1903018	MUNICIPAL	ACTIVE	vocs	ND	06/88	NO			
			HOTTVE	NO3	7.8	06/88 07/86	ND 3,4	09/08		
				CLO4		06/97	ND	09/08 09/03		
ENCANTO	8000139	MUNICIPAL	ACTIVE	vocs	ND _Ł	12/92	ND	12/08		
				NO3	11.3	12/92	5.4	09/08		
				CLO4	ND	06/97	ND	06/08	4	
FISH C	1900358	MUNICIPAL	ACTIVE	vocs	ND	02/85	ND	12/08		
				NO3	6.7	11/94	2.3	12/08		
				CLO4	ND	06/97	ND	06/08		
LAS L	1900357	MUNICIPAL	DESTROYED	vocs	ND	02/85	ND	06/91		
				NO3	-12.1	08/80	4.1	09/91		
				CLO4	NA	NA	NA	NA		
LAS L2	8000140	MUNICIPAL	ACTIVE	TCE	1.6	08/96	ND	09/08		
				NO3 CLO4	16.6 NO	12/92	7.3 ND	09/08		
MT AVE	4000053				ND	06/97	ND	06/08		
MT AVE	1900356	MUNICIPAL	DESTROYED	TCE	16.5	07/87	ND	09/93		
				PCE 1,1,1-TCA	1.0	08/82	ND	09/93		
				L. L. (*LOA	8.4	04/85	ND	09/93		
				1,1-DCE T-1,2-DCE	3.4	07/87 04/85	ND ND	09/93 09/93		

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APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	RECORDATION			CONCENTRA	TION (NO3 II	N MG/L, O	THERS IN	JG/L)	
WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONTAMINANT	HISTORI	C HIGH	MOSTR	ECENT	REMARKS
	NOMBER			OF CONCERN	VALUE	DATE	VALUE	DATE	
				01.04	NIA				
				CLO4	NA	NA	NA	NA	
STA FE	1900354	MUNICIPAL	ACTIVE	TCE	3.3	04/84	ND	09/08	VULNERABLE
				CF	0.5	07/87	ND	09/08	(VOCS AND NO3)
				MC	0.5	09/08	0.5	09/08	
				NO3 CLO4	59.0 ND	01/8 0 06/9 7	3.4	09/08	
				CEO4	ND	06/97	ND	06/08	
WILEY	1902907	MUNICIPAL	ACTIVE	CF	4.2	09/01	ND	09/08	
				NO3	11.0	03/81	6.9	09/08	
				CLO4	ND	06/97	ND	06/08	
CALIFORNIA-A	MERICAN WATER	COMPANY/SAN	MARINO SYST	EM					
BR 1	1901441	MUNICIPAL	INACTIVE	СТС	0.5	40/00	0.5	4000	WILLIAM C
DIX I	1301441	MONGIFAL	INACTIVE	TCE	0,5 27.0	12/96 07/93	0.5 27.0	12/96 12/96	VULNERABLE (NO3)
				PCE	9.0	07/93	7.7	12/96	(1403)
				NO3	31.4	12/96	31.4	12/96	
				CLO4	NA	NA	NA	NA	
BR 2	1902787	MUNICIPAL	INACTIVE	TCE	17.0	12/96	17.0	12/96	VULNERABLE
				PCE	6.4	12/96	6.4	12/96	(NO3)
				NO3	25.3	07/93	25.1	12/96	()
				CLO4	NA	NA	NA	NA	
DELMAR	1903059	MUNICIPAL	ACTIVE	vocs	ND	06/88	ND	09/08	
			7.01172	NO3	13.4	09/00	13.0	09/08	
				CLO4	ND	06/97	ND	07/08	
GRAND	1900926	MUNICIPAL	ACTIVE	TOF	4.0	00/07		22/22	
ONAND	1300320	WONGIFAL	ACTIVE	TCE PCE	4.8 2.1	03/07 12/08	1.4 0.6	06/09 06/09	VULNERABLE (VOCS)
				NO3	10.9	09/03	6.5	09/08	(0003)
				CLO4	ND	08/97	ND	07/08	
GUESS	1900918	MUNICIPAL	INACTIVE	TCE	5.2	00/00	<i>5</i> 2	10/01	
00200	1000010	MOMONAE	MACHVE	PCE	5.4	09/99 12/01	5.2 5.4	12/01 12/01	
				NO3	20.0	05/01	19.0	09/01	
				CLO4	ND	08/97	ND	03/00	
HALL	1900917	MUNICIPAL	DESTROYED	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
HALL 2	8000175	MUNICIPAL	ACTIVE	vocs	ND	03/01	ND	06/09	VULNERABLE
				NO3	23.6	04/01	13,0	09/08	(NO3)
				CLO4	ND .	03/00	ND	07/08	()
HOWLAND	1902424	MUNICIPAL	ACTIVE	TCE	6.9	07/89	0,6	06/09	VULNERABLE
				PCE	3.6	03/01	ND	06/09	(VOCS)
				C-1,2-DCE	3.3	11/87	ND	09/08	,
				MC	7.5	05/87	ND	09/08	1
				NO3	12.4	09/91	11.0	09/08	
				CLO4	ND	08/97	ND	07/08	
IVAR 1	1900923	MUNICIPAL	DESTROYED	PCE	7.4	06/99	6.2	06/00	
				TCE	1.7	06/99	ND	06/00	
				NO3	29.2	09/94	26.0	09/01	
				CLO4	ND	08/97	ND	03/01	
IVAR 2	1902867	MUNICIPAL	DESTROYED	vocs	NA	NA	NA	NA	
				NO3	24.0	12/84	24.0	12/84	
				CLO4	NA	NA	NA	NA	
LONGDEN	1900935	MUNICIPAL	ACTIVE	PCE	7.5	03/09	6.1	06/09	VULNERABLE
				NO3	69.6	03/08	65.0	06/09	(CLO4)
				CLO4	4.1	03/03	ND	07/08	•
MAR 1	1900924	MUNICIPAL	DESTROYED	vocs	ND	01/85	ND	01/85	
			5250120	NO3	89.0	03/79	39.0	01/85	
					- 90				

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

				CONCENTRA	TION (NO3 IN	MG/L, O	THERS IN L	IG/L)	
WELL NAME	RECORDATION	USAGE	STATUS	CONTAMINANT	HISTORIC	HIGH	MOSTR	ECENT	REMARKS
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NUMBER	0.00		OF CONCERN	VALUE	DATE	VALUE	DATE	
				CLO4	NA	NA	NA NA	NA	
MAR 2	1900925	MUNICIPAL	DESTROYED	vocs	NA	NA	NA	NA	
				NO3	33.0	01/84	33.0	01/84	
				CLO4	NA	NA	NA	NA	
MAR 3	1903019	MUNICIPAL	ACTIVE	vocs	ND	01/85	ND	09/08	
WAI	1903019	MONION AL	AOTIVE	NO3	5.8	09/08	5.8	09/08	
				CLO4	ND	06/97	ND	07/08	
* 411 (1) 1 4	4000040	MUNICIPAL	DESTROYED	vocs	NA	NA .	NA	NA	
MIVW 1	1900919	MUNICIPAL	DESTRUTED	NO3	31.0	03/01	31.0	03/01	
				CLO4	NA	NA	NA	NA	
MIVW 2	1900920	MUNICIPAL	ACTIVE	vocs	ND	07/87	ND	09/08	
				NO3	20.0 ND	09/08 06/97	20.0 ND	09/08 07/08	
				CLO4	MD	00/97	ND	01700	
RIC 1	1900921	MUNICIPAL	INACTIVE	vocs	ND	02/85	ND	12/90	VULNERABLE
THO I	1000021			NO3	23.4	08/89	11.8	11/94	(NO3)
				CLO4	NA	NA	NA	NA	
DIC 2	4000020	MUNICIPAL	DESTROYED	vocs	NA	NA	NA	NA	
RIC 2	1900922	MONICIPAL	DESTRUTED	NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
ROANOKE	1900934	MUNICIPAL	INACTIVE	TCE	5.0	06/00	4.7	12/00	VULNERABLE
				PCE C-1,2-DCE	1.2 0.5	04/90 09/00	ND ND	09/00 12/00	(VOCS, NO3, AND CLO4)
				NO3	33.0	05/89	29.2	12/00	
				CLO4	5.6	06/97	ND	03/00	
ROSEMEAD	1900927	MUNICIPAL	ACTIVE	TCE	4.7	12/01	2.0	06/09	VULNERABLE
				PCE	3.4	03/09	2.3	06/09	(VOCS AND NO3)
				NO3 CLO4	36.0 ND	09/08 08/97	34.0 ND	06/09 07/08	
				0004	ND	00/3/	N	01700	
CALIFORNIA (COUNTRY CLUB								
ARTES	1902531	IRRIGATION	STANDBY	vocs	ND	05/87	ND	10/08	VULNERABLE
74(120	1002001	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		NO3	23.7	10/07	17.0	10/08	(NO3)
				CLO4	NA	NA	NA	NA	
CLUB	4000500	IRRIGATION	INACTIVE	PCE	189.0	11/87	189.0	11/87	
CLUB	1902529	IRRIGATION	INACTIVE	1,1,2,2-PCA	24.0	11/87	24.0	11/87	
				NO3	NA ·	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
	4500004	IDDICATION	OTANDDY	PCE	7.1	09/02	1.1	10/08	VULNERABLE
SYCAMORE	1903084	IRRIGATION	STANDBY	TCE	0.7	09/01	ND	10/08	(VOCS)
				NO3	128.0	10/07	76.0	10/0B	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				CLO4	ND	02/98	ND	02/98	
CALIEODNIA	DOMESTIC WATER	COMPANY							
GALIFORNIA I	DOMESTIC WATER	JOHN ANT							
01-E	1901182	MUNICIPAL	DESTROYED		NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
02	1901181	MUNICIPAL	ACTIVE	стс	0.7	09/96	ND	04/09	VULNERABLE
V.L				PCE	2.0	04/08	0.6	04/09	(VOCS, NO3, AND CLO4)
				TCE	4.0	10/99	ND	04/09	
				NO3	24.3	08/96	9.2	04/09	
				CLO4	5.6	10/99	ND	05/09	
03	1002057	MINICIDAL	ACTIVE	стс	5.3	02/01	1.5	04/09	VULNERABLE
03	1903057	MUNICIPAL	ACTIVE	PCE	10.1	01/09	8.6	04/09	(NO3) (1)
				TCE	16,0	01/09	13.0	04/09	. , , , ,
				1,1-DCE	2.2	01/09	1.5	04/09	

APPENDIX C HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

				CONCENTO	TION (NO.	IN MOS -	THEFT		
WELL NAME	RECORDATION	USAGE	STATUS	CONCENTRA			-		
	NUMBER	OUAGE	SIAIUS	OF CONCERN	VALUE	DATE	VALUE	DATE	REMARKS
//				1	-	adaing the same	1	DAIL	
				C-1,2-DCE	1.5	10/08	1,:1	04/09	
				CF	0.7	08/04	ND	04/09	
				NO3	47.6	01/07	22.0	04/09	
				CLO4	9.5	12/08	7.5	05/09	
05	1901183	MUNICIPAL	DESTROYED	PCE	2.0	02/85	ND	12/90	
				NO3	13,0	03/84	13.0	03/84	
				CLO4	NA	NA	NA	NA	
05A	8000100	MUNICIPAL	ACTIVE	стс	1.9	08/96	0.7	04/09	VARIABLE DADIC
				PCE	14.6	10/08	6.1	04/09	VULNERABLE
				TCE	17.8	10/08	7.1	04/09	(NO3) (1)
				1,1-DCE	2.7	10/08	1.0	04/09	
				C-1,2-DCE	1,6	10/08	0.6	04/09	
				NO3	29.0	04/01	10.0	04/09	
				CLO4	ND	06/97	ND	05/09	
06	1902967	MUNICIPAL	ACTIVE	стс	3.5	12/06	ND	04/09	MUNEDABLE
				PCE	16.1	10/08	13.0	04/09	VULNERABLE
	•			TCE	23.7	10/08	16.0	04/09	(NO3 AND CLO4) (1)
				1,1-DCE	4.5	10/08	2.3	04/09	
				C-1,2-DCE	2.6	10/08	1.4	04/09	
				NO3	29.0	06/08	27.0	04/09	
				CLO4	5.1	10/06	3,6	05/09	
80	1903081	MUNICIPAL	ACTIVE	PCE	9.8	02/09	2.0	04/09	MUNICIPALITA
				TCE	12.0	02/09	ND	04/09	VULNERABLE
				CTC	1.1	09/93	ND	04/09	(VOCS, NO3, AND CLO4)
				NO3	24.0	08/02	15.0	04/09	
				CLO4	5.6	08/02	ND	05/09	
13-N	1901185	MUNICIPAL	DESTROYED	vocs	NA	NA	NA	NIA	
				NO3	NA	NA	NA	NA NA	
				CLO4	NA	NA	NA	NA	
14	8000174	MUNICIPAL	ACTIVE	СТС	4.4	10/07	0.5	00100	
			7.01172	PCE	3.9	04/01	0.5	06/08	VULNERABLE
				TCE	18.0	05/01	1.9 5.3	06/08	(NO3) (1)
				1,2-DCA	1.0	06/08	0.7	06/08 06/08	
				C-1,2-DCE	0.7	11/01	ND	06/08	
				1,1-DCE	0.6	08/02	ND	06/08	
				CF	1.3	06/08	0.8	06/08	
				NO3	41.7	02/00	25.0	01/09	
				CLO4	14.0	11/01	13.0	06/08	
CEDAR AVENUE	MUTUAL WATER	COMPANY							
01 SOUTH	1901411				90				
0130011	1901411	MUNICIPAL	DESTROYED	PCE	2.2	09/90	ND	06/94	
				NO3	26.8	08/93	8.9	06/94	
				CLO4	NA	NA	NA	NA	4
02 NORTH	1902783	MUNICIPAL	DESTROYED	PCE	0,8	04/92	ND	06/94	1
				NO3	20.0	01/86	7.4	08/93	
				CLO4	NA	NA	NA	NA	
CEMEX CONSTR	RUCTION MATERIA	LS L.P. (AZ TW	(O)						
02	1900038	INDUSTRIAL	DESTROYED	PCE	700.0	01/85	2.8	09/03	
				TCE	940.0	04/85	6.3	09/03	
				CTC	2.2	09/02	ND	09/03	
				1,1-DCE	350.0	01/87	7.2	09/03	
				1,1-DCA	1.0	08/01	ND	09/03	
				1,1,1-TCA	430.0	01/87	3.6	09/03	
				VC	19.0	12/87	ND	09/03	
				NO3 CLO4	79.0	09/02	73.1	09/03	
				0104	4.2	06/97	ND	09/98	
CHAMPION MUTI	UAL WATER COMP	PANY							

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

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	RECORDATION			CONCENTRA			WASHINGTON TO BE		
WELL NAME	NUMBER	USAGE	STATUS	CONTAMINANT	HISTORI	C HIGH	MOST	ECENT	REMARKS
		J		OF CONCERN	VALUE	DATE	VALUE	DATE	
01	1900908	MUNICIDAL	INIA OTIVE	nor	0.0	00100	0.4	00104	
U1	1900908	MUNICIPAL	INACTIVE	PCE NO3	3.0 NA	09/86 NA	2.1 NA	09/91	VULNERABLE (VOCS)
				CLO4	NA	NA	NA	NA NA	(VOCS)
								, (
02	1902816	MUNICIPAL	ACTIVE	PCE	0.6	06/88	ND	09/08	VULNERABLE
				NO3	27.0	06/09	27.0	06/09	(NO3)
				CLO4	ND	09/97	ND	09/08	
03	8000121	MUNICIPAL	ACTIVE	PCE	1.3	09/96	ND	09/08	VULNERABLE
				FREON 113	18.0	03/07	ND	06/09	(NO3)
				NO3	24.0	03/09	23.0	06/09	
			124	CLO4	ND	03/98	ND	09/08	
HEVRON USA	INC.								
TEMP 1	1900250	NON-POTABLE	INACTIVE	vocs	NA	ALA	ALA.	NA	
T EIVIT	1300230	NON-FOTABLE	INACTIVE	NO3	NA NA	NA NA	NA NA	NA NA	
				CLO4	NA	NA	NA	NA	
TDU0 1141 1	7/4551041 OFF								
II KUS VALLE	Y MEDICAL CENT	EK, WUEEN OF TI	1E VALLEY CA	MPUS					
01	8000138	NON-POTABLE	ACTIVE	VOCS	ND	09/96	ND	10/08	
				NO3	104.8	02/98	89.0	10/08	
				CLO4	24.0	02/98	24.0	02/98	
LAYTON MAN	IUFACTURING CO	MPANY							
02	1901055	INDUSTRIAL	DESTROYED	TCE	150.0	08/01	47.0	09/03	
02	1001000	INDOGITAL	DESTROTED	PCE	30.0	08/01	ND	09/03	
				1,1-DCE	10.0	08/01	1.7	09/03	
				C-1,2-DCE	1.7	08/01	ND	09/03	
				1,1-DCA	15.0	08/01	ND	09/03	
				1,2-DCA	13.0	08/01	ND	09/03	
				1,1,1-TCA	1.1	08/01	ND	09/03	
				NO3 CLO4	87.0 4.0	08/01 09/97	39.7 4.0	09/03 09/97	
OINER, JAME	S W., DBA COINER	RNURSERY							
03	1902951	NON-POTABLE	INACTIVE	PCE	293.5	02/98	170.0	10/01	VULNERABLE
				TCE CTC	10.2	11/87	3.4	10/01	(NO3 AND CLO4)
				1,1-DCE	1.6 6.7	08/87 02/98	1.6 4.6	10/01 10/01	
				C-1,2-DCE	6.8	07/96	2,7	10/01	
		9		1,1,1-TCA	22.0	02/98	12.0	10/01	
				NO3	67.0	10/01	44.7	09/07	
				CLO4	9.0	02/98	ND	09/98	
05R	1903072	NON-POTABLE	ACTIVE	PCE	7.7	02/98	0.5	10/08	VULNERABLE
				TCE	1.6	10/01	ND	10/08	(VOCS, NO3 AND CLO4)
				CTC	2.7	07/96	ND	10/08	1
				1,1-DCE	5.5	10/01	8.0	10/08	
				CF NO3	6.7 84.8	02/98 11/05	ND 30.0	10/08	
				CLO4	9.0	02/98	4.0	10/08 09/98	
ORCORAN BE	OTHERS								
01	1902814	NON-POTABLE	DESTROYED	vocs	NA	NA	NA	NA	
				NO3 GLO4	NA NA	NA NA	NA NA	NA	
				GLO4	NA	Avi	NA	NA	
DUNTY SANIT	ATION DISTRICT	NO. 18							
E08A	8000128	REMEDIAL	ACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
E09A	8000129	RÉMEDIAL	ACTIVE	vocs	NA	NA	NA	NA	
2007	0000120	KEMEDIAL	HOINE	VO00	14/4	13/4	INA	INM	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

NO3	ARKS
NUMBER OF CONCERN VALUE DATE VALUE DATE	
E10A 8000130 REMEDIAL ACTIVE VOCS NA NA NA NA NA NA NA N	
E10A 8000130 REMEDIAL ACTIVE VOCS NA NA NA NA NA NA NA N	
E10A 8000130 REMEDIAL ACTIVE VOCS NA	
NO3	
CLO4	
E11A 8000131 REMEDIAL ACTIVE VOCS NA	
NO3	
EX1 8000141 REMEDIAL ACTIVE VOCS NA	
EX1 8000141 REMEDIAL ACTIVE VOCS NA NA NA NA NA EX2 8000142 REMEDIAL ACTIVE VOCS NA NA NA NA NA EX2 8000142 REMEDIAL ACTIVE VOCS NA NA NA NA NA EX3 8000143 REMEDIAL ACTIVE VOCS NA NA NA NA NA EX3 8000143 REMEDIAL ACTIVE VOCS NA NA NA NA NA NO3 NA NA NA NA NO3 NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA	
NO3	
EX2 8000142 REMEDIAL ACTIVE VOCS NA NA NA NA NA EX3 8000143 REMEDIAL ACTIVE VOCS NA NA NA NA NA EX3 8000143 REMEDIAL ACTIVE VOCS NA NA NA NA NA NO3 NA	
EX2 8000142 REMEDIAL ACTIVE VOCS NA NA NA NA NA EX3 8000143 REMEDIAL ACTIVE VOCS NA	
EX2 8000142 REMEDIAL ACTIVE VOCS NA	
NO3 NA NA NA NA CLO4 NA NA NA NA EX3 8000143 REMEDIAL ACTIVE VOCS NA NA NA NA NO3 NA NA NA NA	
CLO4 NA NA NA NA EX3 8000143 REMEDIAL ACTIVE VOCS NA NA NA NA NO3 NA NA NA NA	
EX3 8000143 REMEDIAL ACTIVE VOCS NA NA NA NA NA NA	
NO3 NA NA NA NA	
NO3 NA NA NA	
CLO4 NA NA NA NA	
EX4 8000144 REMEDIAL ACTIVE VOCS NA NA NA NA	
EX4 8000144 REMEDIAL ACTIVE VOCS NA NA NA NA NO3 NA NA NA NA	
CLO4 NA NA NA NA	
LE1 8000104 REMEDIAL ACTIVE TCE 4.2 06/86 3.7 09/86 VULNE	
PCE 0.8 09/86 0.8 09/86 (VO	CS)
NO3 NA NA NA NA CLO4 NA NA NA NA	
SECT IN IN IN	
LE2 8000105 REMEDIAL ACTIVE TCE 0.1 06/86 ND 09/86	
PCE NA 06/86 ND 09/86	
AN AN AN AN	
CLO4 NA NA NA NA	
LE3 8000106 REMEDIAL ACTIVE TCE 1.5 06/86 1.2 09/86	
PCE 1.6 06/86 0.8 09/86	
NO3 NA NA NA	
CLO4 NA NA NA NA	
LE4 8000107 REMEDIAL ACTIVE TCE 5.1 09/86 5.1 09/86	
PCE 2.0 09/86 2.0 09/86	
NO3 NA NA NA	
CLO4 NA NA NA NA	
COVINA, CITY OF	
GOVINA, GITT GI	
01 1901685 MUNICIPAL INACTIVE PCE 0.6 01/99 0.6 01/99	ì
NO3 120.0 01/99 120.0 01/99	1
CLO4 NA NA NA NA	
02 (GRAND) 1901686 MUNICIPAL INACTIVE VOCS ND 06/88 ND 09/98	
NO3 116.0 08/89 103.0 04/99	
CLO4 23.0 09/97 22.0 09/98	
23 400403 AMMINISTRA DESTROYER	
03 1901687 MUNICIPAL DESTROYED VOCS NA	
NO3 72.0 10/73 72.0 10/73 CLO4 NA NA NA NA	
COVINA IRRIGATING COMPANY	
BAL 1 1900885 MUNICIPAL ACTIVE TCE 200.0 07/80 ND 10/08 VULNE	מאפור
BAL 1 1900885 MUNICIPAL ACTIVE TCE 200.0 07/80 ND 10/08 VULNE PCE 7.6 07/80 ND 10/08 (VOCS A	
1,1-DCE 0.5 10/06 ND 10/08	.2 1100/
MC 0.9 10/06 ND 10/08	
NO3 35,5 12/89 5,4 01/09	
CLO4 1.5 10/06 ND 09/08	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	DE0405 : 2:5::			CONCENTRA	TION (NO3 I	N MG/L, O	THERS IN L	JG/L)	
WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONTAMINANT	HISTORI	C HIGH	MOSTR	ECENT	REMARKS
	NUMBER		_	OF CONCERN	VALUE	DATE	VALUE	DATE	
BAL 2	1900883	MUNICIPAL	ACTIVE	TCE	195.0	06/80	ND	10/08	VULNERABLE
				PCE	7.9	06/80	ND	10/08	(VOCS, NO3 AND CLO4)
				1,1-DCE	0.8	07/07	ND	04/09	
				NO3	42.7	12/89	33.0	04/09	
				CLO4	5.5	03/09	5.5	03/09	
BAL 3	1900882	MUNICIPAL	ACTIVE	TCE	225_0	01/80	ND	10/08	VULNERABLE
				PCE	10.0	02/85	ND	10/08	(VOCS, NO3 AND CLO4)
				CTC	3.0	04/85	ND	10/08	
				1,1-DCA	4.0	04/85	ND	10/08	
				1,2-DCA	3.7 2.1	02/85 04/85	ND ND	10/08 10/08	
				1,1-DCE T-1,2-DCE	2.9	02/85	ND	10/08	
				1,1,1-TCA	5.2	04/85	ND	10/08	
				NO3	57.3	08/89	34.0	04/09	
				CLO4	5.6	09/08	4.5	04/09	
COLUTE	4000004	MUNICIPAL	INIACTIVE	PCE	1.4	12/92	1.3	03/94	
CONTR	1900881	MUNICIPAL	INACTIVE	NO3	125.3	12/82	108.0	03/94	
				CLO4	NA	NA	NA	NA	
	1000000	ANIAHODAI	INIACTOR		2.4	08/85	0.6	09/97	
VALEN	1900880	MUNICIPAL	INACTIVE	PCE		06/81	69.3	09/97	
				NO3 CLO4	73.0 6.4	09/97	6.4	09/97	
				CLO4	0.4	00/01	01	00.01	
CREVOLIN, A.	J.								
NA	8000011	DOMESTIC	INACTIVE	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
CDOWN CITY	PLATING COMPAN	~		CLO4	NA	NA	NA	NA	
SKOWN CITT	FLATING COMPAN	1							
01	8000012	INDUSTRIAL	ACTIVE	TCE	1.2	09/04	1.2	09/04	
				T-1,2-DCE	1.4	05/87	ND	09/04	
				NO3 CLO4	7:4 ND	09/04 09/97	3.4 ND	09/08 10/07	
				GL04	NO	00/01	115	10/01	
DAVIDSON OF	PTRONICS INC.								
NA	8000013	INDUSTRIAL	INACTIVE	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
DAWES, MAR	γ K.								
04	1902952	IRRIGATION	INACTIVE	vocs	NA	NA	NA	NA	
- 1			_	NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
DEL RIO MUT	UAL WATER COMP	ANY							Ĭ
	1000001	MINICIPAL	ACTIVE	TCE	2.2	06/90	ND	09/08	VULNERABLE
BURKETT	1900331	MUNICIPAL	ACTIVE		3.7	03/97	ND	09/08	(VOCS AND NO3)
				PCE NO3	31,0	12/03	15	09/08	(1000/11101100)
				CLO4	ND	09/97	ND	09/08	
	4000000	A ALIA HOLO A I	INIAOTRA		12	08/86	ND	02/89	
KLING	1900332	MUNICIPAL	INACTIVE	PCE NO3	1.3 NA	NA	NA NA	NA	
				CLO4	NA	NA	NA	NA	
DDIETI-10.00	D A IDW								
DRIFTWOOD							75.0	00:00	
01	1902924	INDUSTRIAL	ACTIVE	PCE	13.9	06/98	13.9	06/98	
				1,1,1-TCA	0.3	03/93	ND 46.8	06/98 06/98	
				NO3 CLO4	65.1 ND	03/93 06/98	46.8 ND	06/98	
				GL04	ND	30/30	140	53,56	
DUNNING, GE	ORGE								
,									

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION	USAGE	CTATUS	CONCENTRA					
	NUMBER	USAGE	STATUS	OF CONCERN	HISTOR			RECENT	REMARKS
		J		OF CONCERN	VALUE	DATE	VALUE	DATE	
1910	1900091	IDDIO A TIOU							
1810	1900091	IRRIGATION	INACTIVE	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
ST PASADE	NA WATER COMP	ANY, LTD.							
09	1901508	MUNICIPAL	ACTIVE	vocs	ND	06/88	ND	07/08	
				NO3	4.1	03/98	3.6	03/09	
				CLO4	ND	07/97	ND	03/09	
. MONTE, CIT	Y OF		w						
02A	1901692	MUNICIPAL	ACTIVE	D0E	40.0				
	TOUTUDE	WONTOFAL	ACTIVE	PCE	13.0	03/98	5.7	04/09	VULNERABLE
				TCE	5.3	01/95	1.8	04/09	(NO3) (1)
				NO3	24.5	04/08	12.0	04/09	
				CLO4	ND	07/97	ND	07/08	
03	1901693	MUNICIPAL	STANDBY	PCE	23.6	12/00	5.8	09/08	
				1,1,1-TCA	1.0	11/93	ND	07/08	
				NO3	71.6	08/89	49.0	04/09	
				CLO4	ND	07/97	ND	07/08	
04	1901694	MUNICIPAL	ACTIVE	PCE	16,2	03/84	0.6	01/08	VALL NICEARLE
				TCE	7.8	02/80	ND	12/07	VULNERABLE
				NO3	44.4	12/07	40.3	01/08	(VOCS AND NO3)
				CLO4	ND	07/97	ND	07/03	
05	1901695	MUNICIPAL	DESTROYED	TCE	150.0	07/00	70.5	40/05	
	11000	MONION AL	DESTRUTED	PCE	150.0	07/93	70.0	12/96	
				CTC	51.0 4.3	07/93	32.0	12/96	
				NO3	53.9	07/93	1.4	12/96	
				CLO4	53.9	12/96 06/97	26.3 5.9	06/99 06/97	
10	1901699	MUNICIPAL	AOTIVE						
	1001000	MUNICIPAL	ACTIVE	TCE	7.2	09/81	ND	04/09	VULNERABLE
				PCE	17.7	12/93	2.6	04/09	(VOCS) (1)
				NO3	20.0	04/09	20.0	04/09	
				CLO4	ND	06/97	ND	09/08	
11	1901700	MUNICIPAL	DESTROYED	vocs	NA	NA	NA	NA	
				NO3	21.6	07/79	21.6	07/79	
				CLO4	NA	NA	NA	NA	
12	1903137	MUNICIPAL	ACTIVE	TCE	53.2	06/92	34.0	04/09	VULNERABLE
				PCE	18.4	07/08	14.0	04/09	(NO3) (1)
				CTC	1.0	06/92	ND	04/09	(1100)(1)
				NO3	41.0	06/05	33.0	04/09	
				CLO4	ИD	06/97	ND	07/08	
13	8000101	MUNICIPAL	ACTIVE	PCE	2,7	10/08	1.2	04/00	VALINEBABLE
				TCE	2.9	10/08	1.0	04/09 04/09	VULNERABLE
				NO3	17.0	03/03	11.1	03/09	(VOCS)
				CLO4	ND	07/97	ND	07/08	
MTVW	1902612	IRRIGATION	DESTROVED	PCE.	2.4	00/05			
			DEGINGTED	PCE TCE	2.1	08/85	ND	01/01	
				NO3		01/85	ND 10.0	01/01	
				CLO4	30.0 ND	02/87	10.0	01/01	
				OLO4	ND	09/97	ND	11/97	
MONTE CEME	TERY ASSOCIATI	ON							
NA	8000017	IRRIGATION	INACTIVE	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
IIT STREET W	ATER COMPANY								
ΔΙΔ	1001100	IDDIOATION	DEATE :						
NA	1901199	IRRIGATION	DESTROYED	VOCS NO3	NA	NA	NA	NA	
					NA	NA	NA	NA	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

CLO4	MARKS NERABLE NO3) NERABLE NO3)
CLO4 NA NA NA NA NA NA NA SIFFORD, BROOKS JR. O1	NO3) NERABLE
GIFFORD, BROOKS JR. 01 1902144 NA DESTROYED VOCS NA	NO3) NERABLE
GIFFORD, BROOKS JR. 01 1902144 NA DESTROYED VOCS NA	(NO3) NERABLE
01 1902144 NA DESTROYED VOCS NA	NO3) NERABLE
NO3 NA NA NA NA NA NA CLO4 NA NA NA NA NA GLENDORA, CITY OF 01-E 1901523 MUNICIPAL ACTIVE TCE 0.8 12/80 ND 09/07 VULN NO3 38.1 10/88 35.0 08/08 (1) CLO4 ND 06/97 ND 03/03 02-E 1901526 MUNICIPAL ACTIVE VOCS ND 03/85 ND 09/08 VULN NO3 70.0 05/78 9.4 12/08 (I)	NO3) NERABLE
CLO4 NA NA NA NA NA GLENDORA, CITY OF 01-E 1901523 MUNICIPAL ACTIVE TCE 0.8 12/80 ND 09/07 VULN NO3 38.1 10/88 35.0 08/08 (I CLO4 ND 06/97 ND 03/03 02-E 1901526 MUNICIPAL ACTIVE VOCS ND 03/85 ND 09/08 VULN NO3 70.0 05/78 9.4 12/08 (I	NO3) NERABLE
GLENDORA, CITY OF 01-E 1901523 MUNICIPAL ACTIVE TCE 0.8 12/80 ND 09/07 VULN NO3 38.1 10/88 35.0 08/08 (I CLO4 ND 06/97 ND 03/03 02-E 1901526 MUNICIPAL ACTIVE VOCS ND 03/85 ND 09/08 VULN NO3 70.0 05/78 9.4 12/08 (I	(NO3) NERABLE
01-E 1901523 MUNICIPAL ACTIVE TCE 0.8 12/80 ND 09/07 VULN NO3 38.1 10/88 35.0 08/08 (I CLO4 ND 06/97 ND 03/03 02-E 1901526 MUNICIPAL ACTIVE VOCS ND 03/85 ND 09/08 VULN NO3 70.0 05/78 9.4 12/08 (I	(NO3) NERABLE
NO3 38.1 10/88 35.0 08/08 (I CLO4 ND 06/97 ND 03/03 02-E 1901526 MUNICIPAL ACTIVE VOCS ND 03/85 ND 09/08 VULN NO3 70.0 05/78 9.4 12/08 (I	NO3) NERABLE
CLO4 ND 06/97 ND 03/03 02-E 1901526 MUNICIPAL ACTIVE VOCS ND 03/85 ND 09/08 VULN NO3 70.0 05/78 9.4 12/08 (I	NERABLE
02-E 1901526 MUNICIPAL ACTIVE VOCS ND 03/85 ND 09/08 VULN NO3 70.0 05/78 9.4 12/08 (I	
NO3 70.0 05/78 9.4 12/08 (I	
	(1403)
CLO4 ND 07/97 ND 09/08	
03-G 1901525 MUNICIPAL INACTIVE TCE 0.5 12/79 ND 05/97	
03-G 1901525 MUNICIPAL INACTIVE TCE 0.5 12/79 ND 05/97 PCE 0.5 05/97 0,5 05/97	
NO3 162.4 08/83 111.0 08/99	
CLO4 NA NA NA NA	
04-E 1901524 MUNICIPAL INACTIVE TCE 0.7 08/80 ND 08/91	
PCE 0.1 07/81 ND 08/91	
NO3 126.0 06/83 56.8 08/91	
CLO4 NA NA NA	
05-E 8000149 MUNICIPAL ACTIVE VOCS ND 02/95 ND 09/08	
NO3 3.2 05/95 2.1 06/09	
CLO4 ND 07/97 ND 09/08	
	VERABLE
	ND CLO4) (3)
1,1-DCE 435.0 05/84 ND 04/98	
C-1,2-DCE 21,0 05/82 ND 04/98 1,1-DCA 5,0 05/84 ND 04/98	
1,2-DCA 12.1 12/93 ND 04/98	
1,1,1-TCA 3,200 05/84 64.0 04/98	
NO3 106.0 04/98 75.9 04/98	
CLO4 5.3 04/98 5.3 04/98	
08-E 1900829 MUNICIPAL ACTIVE MC 0.7 08/02 ND 03/09	
NO3 6.6 08/86 ND 12/08	
CLO4 ND 07/97 ND 09/08	
09-E 1900830 MUNICIPAL ACTIVE VOCS ND 05/89 ND 09/08	
NO3 #.1 08/96 ND 12/08	
CLO4 ND 07/97 ND 09/08	
10-E 1900828 MUNICIPAL ACTIVE CF 1.9 07/97 ND 03/09 VULN	VERABLE
	(EOM
CLO4 ND 07/97 ND 09/08	
11-E 1900826 MUNICIPAL ACTIVE VOCS ND 05/82 ND 10/08	
NO3 117.5 08/73 48.0 06/09	
CLO4 ND 07/97 ND 09/08	
12-G 1900827 MUNICIPAL ACTIVE TCE 0.9 12/80 ND 09/08	
MC 2.2 05/89 ND 09/08	
NO3 4.7 07/98 ND 12/08	
CLO4 ND 06/97 ND 09/08	
	NERABLE
CLO4 ND 06/04 ND 09/08	(NO3)

GOEDERT, LILLIAN

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

				CONCENTRA	TION (NO3 II	MG/L, O	THERS IN L	JG/L)	
WELL NAME	RECORDATION	USAGE	STATUS	CONTAMINANT	HISTORIC		MOSTR		REMARKS
	NUMBER			OF CONCERN	VALUE	DATE	VALUE	DATE	
-									
GOEDERT	8000159	IRRIGATION	DESTROYED	VOCS NO3	ND	06/98 06/98	ND 7.0	06/98 06/98	
				CLO4	7.0 ND	06/98	ND	06/98	
				0207					
GOLDEN STAT	E WATER COMPAN	IY/SAN GABRIE	L VALLEY DIST	RICT					
AZU 1	1902020	MUNICIPAL	DESTROYED	TCE	15.0	07/93	0.6	01/95	
,				PCE	1.9	07/93	ND	01/95	
				NO3	72.9	12/90	35.0	07/02	
				CLO4	NA	NA	NA	10/02	
EARL 1	1902144	MUNICIPAL	ACTIVE	PCE	6.0	09/03	6.0	09/03	
L/ II CL	1002111		7,07,	NO3	7.2	08/03	7.1	09/03	
				CLO4	ND	08/97	ND	08/03	
ENG 4	4000004	AALINIIOIDAA	A CTIVE	TOE	24.0	04/02	E 0	06/00	VULNERABLE
ENC 1	1902024	MUNICIPAL	ACTIVE	TCE PCE	21.0 3.5	04/03 04/03	5.8 1.9	06/09 06/09	(NO3 AND CLO4) (1)
				CF	0.9	08/00	ND	11/08	(110071112 020 17(17
				NO3	77.6	08/91	33.0	06/09	
				CLO4	4.2	12/03	ND	11/08	
ENO 0	4000005	AMINIOIDAI	A CTIVE	TOF	20.4	07/04	0.0	06/00	(1)
ENC 2	1902035	MUNICIPAL	ACTIVE	TCE PCE	29.1 6.1	02/01 02/01	8.8 4.2	06/09 06/09	(1)
				NO3	21.0	02/09	18.0	06/09	
				CLO4	ND	08/97	ND	04/08	
ENC 3	8000073	MUNICIPAL	ACTIVE	PCE	4.7	01/02	2.9	06/09	VULNERABLE (NO.2) (4)
				TCE NO3	11.0 43.2	01/02 07/93	7.3 18.0	06/09 06/09	(NO3) (1)
				CLO4	ND	09/97	ND	04/08	
FAR 1	1902034	MUNICIPAL	ACTIVE	TCE	11.9	10/80	ND	02/09	VULNERABLE
				PCE	3.1	10/87	ND	02/09	(VOCS)
				NO3 CLO4	13.0 ND	07/89 08/97	ND ND	06/09 06/09	
				OLO.	110	00,07	.,,	00/00	
FAR 2	1902948	MUNICIPAL	ACTIVE	TCE	12.9	07/80	ND	06/09	VULNERABLE
				PCE	2.6	10/87	ND	08/08	(VOCS)
				NO3	12.2	07/90	4.2	08/08	
				CLO4	ND	08/97	ND	08/08	
GAR 1	1900513	MUNICIPAL	ACTIVE	CF	0.8	08/99	ND	07/03	VULNERABLE
				PCE	4.5	10/03	4.5	10/03	(VOCS)
				NO3	8.3	08/03	7.7	09/03	
				CLO4	ND	08/97	ND	08/03	
GAR 2	1900512	MUNICIPAL	ACTIVE	PCE	12.0	07/03	11.0	08/03	
Or ii 12	1000012	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		TCE	2.2	08/03	2.2	08/03	
				NO3	7.3	08/97	4.6	07/02	
				CLO4	ND	08/97	ND	08/03	1
GID 1	1902032	MUNICIPAL	DESTROYED	TCE	6.6	04/85	4-1	09/93	(1)
GID I	1902002	WONGIFAL	DESTRUTED	PCE	0.9	09/93	0.9	09/93	
				NO3	40.6	09/93	40.6	09/93	
				CLO4	NA	NA	NA	NA	
010.0	1000001	MUNICIPAL	DESTROYER	TOF	00.0	05/07	6.3	00/02	
GID 2	1902031	MUNICIPAL	DESTROYED	TCE PCE	86.0 20.0	05/87 05/87	5.2 1.5	09/93 09/93	
				CTC	3.0	05/87	ND	09/93	
				NO3	45.8	09/93	45.8	09/93	
				CLO4	NA	NA	NA	NA	
0044	4000000	NALINITO DA S	INIACTIVE	TOF	22.0	00/00	25 4	11/04	VIII NEDADI E
GRA 1	1902030	MUNICIPAL	INACTIVE	TCE PCE	33.0 2.5	09/88 11/93	25.4 0.6	11/94 11/94	VULNERABLE (NO3)
				NO3	86.8	08/89	44.4	07/95	()
				CLO4	NA	NA	NA	NA	
GRA 2	1902461	MUNICIPAL	INACTIVE	TCE	31.3	08/89 09/94	24.6 3.3	08/94 09/94	VULNERABLE (NO3)
				PCE	3.3	03/94	3.3	09/94	(1403)

APPENDIX C
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AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

22 (2) | 21 (2) |

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				CONCENTRA	TION (NO3 II	N MG/L, O	THERS IN U	IG/L)	
WELL NAME	RECORDATION	USAGE	STATUS	CONTAMINANT	HISTORIC		MOSTR		REMARKS
	NUMBER			OF CONCERN	VALUE	DATE	VALUE	DATE	
				1,1-DCE	4.8	08/94	4.8	08/94	time.
				NO3	82,1	07/90	44.2	07/95	
				CLO4	NA	NA	NA	NA	
				020.				7	
JEF 1	1902017	MUNICIPAL	INACTIVE	TCE	340.0	01/80	98.0	01/85	
				PCE	23.0	03/81	8.0	01/85	
				1,1,1-TCA	31.0	01/85	31.0	01/85	
				MC	10.0	01/85	10.0	01/85	
				NO3 CLO4	52.0 NA	07/83 NA	48.7 NA	03/86 NA	
				0204	INA	INA	IND	14/1	
JEF 2	1902018	MUNICIPAL	INACTIVE	TCE	260.0	01/80	140_0	01/85	
				PCE	15.0	03/81	6.0	01/85	
				1,1-DCE	20.0	01/85	20.0	01/85	
				1,1,1-TCA	54.0	01/85	54.0	01/85	
				MC	6.0	01/85	6.0	01/85	
				NO3 CLO4	68.0 NA	06/77 NA	61.0 NA	06/79 NA	
				OLOI	, , ,	1471	14/1	1471	
JEF 3	1902019	MUNICIPAL	INACTIVE	TCE	121.0	02/81	4.9	08/92	VULNERABLE
				PCE	12.0	03/81	0.6	08/92	(VOCS AND NO3) (3)
				1,1,1-TCA	29.0	04/85	ND	08/92	
				T-1,2-DCE	2.4	04/85	ND	08/92	
				NO3 CLO4	52.0 NA	12/84 NA	23.5 NA	08/92 NA	
				CLO4	INA	IVA	INM	IVA	
JEF 4	8000111	MUNICIPAL	ACTIVE	vocs	ND	08/89	ND	08/08	
				NO3	14.7	07/89	5.5	08/08	
				CLO4	ND	08/97	ND	08/08	
DED 4	4000007	MUNDOIDAL	AOTIVE	TOF	05.0	40/00	4.4	00/00	MUNEDARIE
PER 1	1902027	MUNICIPAL	ACTIVE	TCE PCE	25.8 6.8	10/80 0 7 /87	1.1 0.5	06/09 06/09	VULNERABLE (VOCS AND NO3) (3)
				NO3	22.8	08/86	19.0	08/08	(VOCS AND NOS)(0)
				CLO4	ND	08/97	ND	08/08	
S G 1	1900510	MUNICIPAL	ACTIVE	TCE	6.8	12/03	ND	06/09	VULNERABLE
				PCE	46.0	04/06	7.8	06/09	(NO3 AND CLO4) (1)
				C-1,2-DCE 1,1-DCA	1.8 1.8	11/04 06/04	ND ND	06/09 06/09	
				1,1-DCE	0.7	11/04	ND	06/09	
				FREON 11	1.2	08/03	ND	08/08	
				NO3	27.0	04/02	21.0	06/09	
				CLO4	8.1	08/03	ND	06/09	
0.00	4000544			TOP	0.0	00/00	ALD	40105	VIII NEDADI E
S G 2	1900511	MUNICIPAL	ACTIVE	TCE PCE	3.6 11.0	06/99 02/03	0.8	10/05 10/05	VULNERABLE (VOCS AND CLO4) (1)
				C-1,2-DCE	1.2	02/03	ND	10/05	(VOUS AND CEC4)(1)
				NO3	53.1	10/05	53.1	10/05	
				CLO4	7.0	02/03	ND	10/05	
									VIII VERARIE V
SAX 1	1900515	MUNICIPAL	DESTROYED	PCE	1.4	04/97	0.9	12/97	VULNERABLE
				MC NO3	2.2 33.1	04/89 10/97	ND 33.1	08/97 10/97	(NO3)
				CLO4	ND	08/97	ND	12/97	
SAX 3	1900514	MUNICIPAL	ACTIVE	vocs	ND	04/89	ND	08/08	VULNERABLE
				NO3	27.3	11/96	2.3	08/08	(NO3)
				CLO4	ND	08/97	ND	08/08	
SAX 4	8000146	MINICIPAL	ACTIVE	vocs	ND	03/92	ND	08/08	
OAA 4	3000140	MILLION: YE	AGTIVE	NO3	11.9	08/99	ND	08/08	
				CLO4	ND	08/97	ND	08/08	
GOLDEN STAT	TE WATER COMPAN	NY/SAN DIMAS	DISTRICT						
ADT 4	4000454	MUNICIDAL	DESTROYES	VOCC	N/A	NIA	NI A	NIA	
ART-1	1902151	MUNICIPAL	DESTROYED	VOCS NO3	NA 60.0	NA 10/74	NA 60.0	NA 10/74	
				CLO4	NA	NA	NA	NA	
				5207	, .	. 17 1	. 47 1		

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HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

				CONCENTRA	TION (NO3 IN	MG/L, O	THERS IN L	JG/L)	
WELL NAME	RECORDATION	USAGE	STATUS	CONTAMINANT	HISTORIC		MOSTR	==	REMARKS
11222117	NUMBER			OF CONCERN	VALUE	DATE	VALUE	DATE	
457.0	4000450	MUNICIPAL	ACTIVE	VOCS	ND	06/89	ND	05/07	VULNERABLE
ART-2	1902152	MUNICIPAL	ACTIVE	NO3	26.2	08/07	9.4	09/07	(NO3)
				CLO4	ND	08/97	ND	09/07	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
								05100	VIII NEDADLE
ART-3	1902842	MUNICIPAL	ACTIVE	vocs	ND	05/89	ND	05/09	VULNERABLE (NO3 AND CLO4)
				NO3 CLO4	60.0 4.7	01/73 02/09	33.0 4.0	05/09 05/09	(NOS AND CLO4)
				0204	7.1	02/00		00,00	
BAS-3	1902148	MUNICIPAL	ACTIVE	VOCS	ND	06/89	ND	05/09	VULNERABLE
				NO3	67.0	01/03	24.0	05/09	(NO3 AND CLO4)
				CLO4	17.0	03/03	ND	05/09	
BAS-4	1902149	MUNICIPAL	ACTIVE	vocs	ND	03/85	ND	05/09	
DAG-4	1002 140	MONION / LE	7.01172	NO3	106.0	05/76	87.0	05/09	
				CLO4	20.0	01/02	13.0	05/09	
0.1774	4000500	MINIMODAL	A OTHER	vocs	ND	06/88	ND	05/08	VULNERABLE
CITY	1902286	MUNICIPAL	ACTIVE	NO3	44.7	09/93	31.0	11/08	(NO3)
				CLO4	ND	08/97	ND	08/08	
COL-1	1902266	MUNICIPAL	DESTROYED	vocs	NA	NA	NA	NA	
				NO3 CLO4	93.0 NA	09/75 NA	10.0 NA	10/76 NA	
				CLO4	INA	14/	N/S	11/1	
COL-2	1902267	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	117.5	10/76	117.5	10/76	
				CLO4	NA	NA	NA	NA	
COL-4	1902268	MUNICIPAL	ACTIVE	CF	7.5	09/97	ND	02/08	VULNERABLE
COL-4	1902200	MONICIPAL	ACTIVE	NO3	64.0	03/83	4.1	05/08	(NO3)
				CLO4	ND	09/97	ND	04/08	
COL-5	1902269	MUNICIPAL	DESTROYED	VOCS	NA	NA NA	NA NA	NA NA	
				NO3 CLO4	NA NA	NA	NA	NA	
				0201					
COL-6	1902270	MUNICIPAL	ACTIVE	PCE	7.2	07/85	ND	05/08	VULNERABLE
				CF	0.6	09/97	ND	05/08	(VOCS AND NO3)
				NO3 CLO4	56,0 ND	06/85 09/97	38.2 ND	05/08 10/07	
				OLOT	110	00/01	110	10,01	
COL-7	1902271	MUNICIPAL	ACTIVE	PCE	22.0	12/87	3.1	11/99	VULNERABLE
			*	TCE	9.9	01/80	ND	09/99	(VOCS AND CLO4)
				1,1-DCE	1./1 1.7	03/85 07/85	ND ND	09/99 09/99	
				1,1,1-TCA NO3	118.0	05/79	68.1	01/00	
				CLO4	4.2	01/02	4,2	01/02	
			59		4:				
COL-B	1902272	MUNICIPAL	INACTIVE	PCE	0.2	09/80	ND 50.8	12/96 12/96	
				NO3 CLO4	120 ₋ 0 NA	06/83 NA	NA	NA	1
				0104	NO		. 1/ 1		O(E
HIGHWAY	1902150	MUNICIPAL	ACTIVE	TCE	0.6	12/80	ND	05/09	VULNERABLE
				PCE	0.1	12/80	ND	05/09	(NO3 AND CLO4)
				NO3 CLO4	42.5 8.0	10/03 10/03	12.0 ND	05/09 05/09	
				GLO4	0.0	10/03	140	00/03	
L HILL 2	1902154	MUNICIPAL	DESTROYED	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
MALON	1902287	MUNICIPAL	ACTIVE	CF	1.7	08/96	ND	05/09	VULNERABLE
MALON	1332201	MOMORAL	, .OTTVL	NO3	42.0	09/87	19.0	05/09	(NO3)
				CLO4	ND	08/97	ND	08/08	
GREEN, WAL	TER								
NA	8000027	IRRIGATION	INACTIVE	vocs	NA	NA	NA	NA	
	3005.			NO3	NA	NA	NA	NA	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

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				CONCENTRA	TION (NO3 II	N MG/L, O	THERS IN I	JG/L)	
WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONTAMINANT	HISTORI	C HIGH	MOSTR	ECENT	REMARKS
	NOMBER			OF CONCERN	VALUE	DATE	VALUE	DATE	
				CLO4	NA	NA	NA	NA	
NA	8000028	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3 CLO4	NA NA	NA NA	NA NA	NA NA	
				520				,	
HALL (W.E.) Co	OMPANY								
NA	1902496	DOMESTIC	INACTIVE	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
HANSEN, ALIC	E								
2946C	8000029	IRRIGATION	ACTIVE	vocs	NA	NA	NA	NA	
20100	0000020	WWW	7.07.17.2	NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
HANSON AGG	REGATES WEST, I	NC.							
DUA 1	1900961	INDUSTRIAL	INACTIVE	vocs	NA	NA	NA	NA	
DOAT	1300301	INDUSTRIAL	IIVAGTIVE	NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
EL 1	1901492	INDUSTRIAL	ACTIVE	vocs	NĐ	05/98	ND	09/02	
	1001402	INDOOTHIAL	NOTIVE	NO3	17.0	02/93	2.2	09/02	
				CLO4	ND	03/98	ND	03/98	
EL 3	1901493	INDUSTRIAL	ACTIVE	vocs	ND	06/98	ND	09/02	
				NO3	22.0	05/93	2.8	09/02	
				CLO4	ND	03/98	ND	03/98	
EL 4	1903006	INDUSTRIAL	ACTIVE	vocs	ND	12/87	ND	09/02	
				NO3	6.3	06/98	ND	09/02	
				CLO4	NA	NA	NA	NA	
KIN 1	1900963	INDUSTRIAL	DESTROYED	vocs	NA	NA	NA	NA	
				NO3 CLO4	NA NA	NA NA	NA NA	NA NA	
				GLO4	INC	IVA	NA.	ING	
HARTLEY, DAY	VID								
NA	8000085	DOMESTIC	ACTIVE	VOCS	ND	10/95	ND	10/95	
				NO3	111.0	01/96	75.0	04/96	
				CLO4	NA	NA	NA	NA	
HEMLOCK MU	TUAL WATER COM	PANY							
NORTH	1901178	MUNICIPAL	ACTIVE	PCE	51.7	04/82	ND	06/09	VULNERABLE
				TCE	0.7	12/87	ND	06/09	(VOCS) (1)
				NO3	18.9	12/06	5,6	12/08	1
				CLO4	ND	09/97	ND	09/08	
SOUTH	1902806	MUNICIPAL	ACTIVE	PCE	210,0	12/87	ND	06/09	VULNERABLE
				TCE NO3	0.9 32.7	04/89 12/94	ND 5.0	06/09 06/09	(VOCS AND NO3) (1)
				CLO4	ND	09/97	ND	09/08	
INDUSTRY WA	TERWORKS SYST	EM, CITY OF							
			MACTOLE	TOF	40.0	04100	4.7	10/03	
01	1902581	MUNICIPAL	INACTIVE	TCE PCE	40.0 9.0	01/80 04/80	1.7 5.0	10/92 10/92	
				CTC	5.7	10/92	5.7	10/92	
				1,1-DCE	15.3	10/92	15.3	10/92	
				1,2-DCA NO3	0.6 60.2	10/92 10/92	0.6 60.2	10/92 10/92	
				CLO4	NA	NA	NA	NA	
02	1902582	MUNICIPAL	INACTIVE	TCE	19.0	01/80	2.3	04/81	
UZ	1902002	MOMORAL	MACTIVE	ICE	13.0	0.1100	4,0	07/01	

APPENDIX C
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AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

				CONCENTRA	TION (NO3	IN MG/L O	THERS IN I	JG/L)	1
WELL NAME	RECORDATION	USAGE	STATUS	CONTAMINANT	HISTOR		MOSTR		REMARKS
	NUMBER			OF CONCERN	VALUE	DATE	VALUE	DATE	REMARKS
				PCE	40.0	04/04	40.0	04/04	
				NO3	10.0 55.5	04/81 02/86	10.0 55.5	04/81 02/86	
				CLO4	100.0	04/99	100.0	04/99	
03	8000078	MUNICIPAL	STANDBY	PCE	2.6	09/80	1.6	07/06	VULNERABLE
				TCE CTC	12.0 0.5	07/06 07/06	12.0 0.5	07/06 07/06	(NO3, AND CLO4)
				1,2-DCA	0.5	07/06	0.5	07/06	
				BDCM	0.6	07/03	ND	07/06	
				8F	0.5	07/03	ND	07/06	
				CF	0.9	09/02	0.6	07/06	
				NO3	31.1	08/00	ND	07/06	
				CLO4	120.0	04/99	ND	07/06	
04	8000096	MUNICIPAL	STANDBY	PCE	2,4	08/01	0.5	07/06	VULNERABLE
				TCE	8.0	11/01	1.7	07/06	(VOCS AND NO3) (2)
				1,1-DCE	0.9	09/02	0.6	07/06	
				1,2-DCA	1.0	11/01	ND	07/06	
				CTC MC	0.7 0.9	11/01 06/89	ND ND	07/05 07/05	
				NO3	42.0	06/02	33.0	04/07	
				CLO4	14.8	06/01	6.5	01/06	
05	8000097	MUNICIPAL	ACTIVE	PCE	0.9	11/01	ND	08/08	VULNERABLE
				TCE 1,2-DCA	6.8	04/96	2.5	08/08	(VOCS AND NO3) (2)
				CF	0.7 0.6	09/02 01/07	ND ND	08/08 08/08	
				NO3	28.0	08/08	28.0	08/08	
				CLO4	11.0	04/04	8,1	08/08	
OFTH AME	4000500	MUNICIPAL	BEOTROVER	TOF					
05TH AVE	1902583	MUNICIPAL	DESTROYED	TCE NO3	0.3 NA	12/80 NA	0.3 NA	12/80 NA	
				CLO4	NA	NA	NA	NA	
KNIGHT, KATH	IRYN M.								
NA	1901688	DOMESTIC	INACTIVE	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
LANDEDOC	SUAL								
LANDEROS, JO	JHN								
NA	8000031	DOMESTIC	INACTIVE	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
1 A PHENTE VA	ALLEY COUNTY WA	TED DISTRICT			*1				
EXT OLIVIE VA	ALLET COOKIT WA	TER DISTRICT			(e				
01	1901459	MUNICIPAL	DESTROYED	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	14
				CLO4	NA	NA	NA	NA	}
02	1901460	MUNICIPAL	ACTIVE	TCE	105.0	12/08	79.0	05/09	VULNERABLE
02	7001700	WOTTON AL	AOTIVE	PCE	6,6	03/00	3.4	05/09	(NO3) (1,4)
				CTC	8,5	12/02	4.3	05/09	(, (., .,
				1,1-DCA	2.1	11/03	ND	05/09	
				1,2-DCA	6.1	03/00	3.1	05/09	
				1,1-DCE C-1,2-DCE	1.6	12/00	ND 1-3	05/09	
				C-1,2-DGE CF	1,8 2,5	12/00 12/08	1.3 2.1	05/09 05/09	
				NO3	32.0	02/09	23.0	05/09	
				CLO4	183.0	02/98	73.0	05/09	
03	1902859	MUNUCIDAL	ACTIVE	TOF	60.4	00/00	0.0	00'00	MIN MET AND
V3	1902009	MUNICIPAL	ACTIVE	TCE PCE	68.4 6.3	06/98 04/85	6.2 1.4	06/09 06/09	VULNERABLE (NO3) (1,4)
				стс	8.5	11/04	ND	06/09	(1,00) (1,7)
				1,1-DCE	0.9	10/95	ND	06/09	
				1,2-DCA	6.7	02/99	ND	06/09	
				C-1,2-DCE	1;4	01/97	ND	06/09	

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	RECORDATION			CONCENTRA					
WELLNAME	NUMBER	USAGE	STATUS	CONTAMINANT	HISTORI		MOSTR		REMARKS
				OF CONCERN	VALUE	DATE	VALUE	DATE	
				1,1-DCA	0.5	09/01	ND	06/09	
				CF	1.8	09/01	ND	06/09	
				NO3	95.0	01/80	30,6	04/09	
				CLO4	174.0	02/98	16.0	04/09	
						02,00		0 1700	
04	8000062	MUNICIPAL	STANDBY	TCE	84.3	03/00	46.0	04/04	VULNERABLE
				PCE	6.6	03/00	2.9	04/04	(NO3) (1,4)
				CTC	7.6	04/95	1.9	04/04	()
				1,1-DCA	0.7	04/04	0.7	04/04	
				1,2-DCA	8.1	03/00	4.4	04/04	
				1,1-DCE	1.3	04/97	0.5	04/04	
				C-1,2-DCE	15.6	11/98	1.7	04/04	
				CF	2.3	04/04	2,3	04/04	
				NO3	24,9	04/95	18.1	04/04	
				CLO4	159.0	06/97	71.2	04/04	
OF	0000000	MUNICIPAL	A OTIVE	TOF	40.0	27/25	0.50	0.0.00	AU AUGA DI G
05	B000209	MUNICIPAL	ACTIVE	TCE	43.0	03/08	25.0	03/09	VULNERABLE
				PCE	3.8	03/08	2.2	03/09	(NO3) (1,4)
				CTC 1,1-DCA	2.3	03/08	1.2 ND	03/09	
				1,1-DCA 1,2-DCA	0.5 2.7	03/08 03/08	ND 1.2	03/09	
				1,1-DCE	0.5	03/08	ND	03/09	
				C-1,2-DCE	0.8	11/08	0.7	03/09	
				CF	1.7	03/08	ND	03/09	
				NO3	28.0	03/09	27.0	03/09	
				CLO4	65.0	03/08	32.0	04/09	
A VERNE, CIT	TY OF								
SNIDO	1902322	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
W15-L	1902769	MUNICUPAL	DESTROYED	vocs	NΑ	N/A	NΙΔ	NA	
** 10-L	1002100	MONICOFAL	PESTRUTED	NO3	NA NA	NA NA	NA NA	NA NA	
				CLO4	NA	NA	NA	NA	
W24-L	1901197	MUNICIPAL	DESTROYED	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
EE, PAUL									
01	8000018	DOMESTIC	INACTIVE	vocs	NA	NA	NA	NA	
1011				NO3	NA	NA	NA	NA	
				CLO4	NA :	NA	NA	NA	
0.0	000000								
02	8000019	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3 CLO4	NA NA	NA NA	NA NA	NA NA	
				ULU4	NA	NA	NA	NA	ì
03	8000020	DOMESTIC	INACTIVE	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
04	8000021	DOMESTIC	INACTIVE	vocs	NA	NA	NA	NA	
0.7	0000021	DOMESTIC	INVOILAE	NO3	NA	NA NA	NA	NA	
				CLO4	NA	NA	NA	NA	
OS ANGELES	S, COUNTY OF							, -, ,	
02	1902580	NON POTABLE	ACTIVE	PCE	66	00/04	6.6	00/04	
02	1902300	NON POTABLE	ACTIVE	TCE	6.6 1.3	09/04 09/04	6.6	09/04	
				1,2-DCA	0.5	01/96	1.3 ND	09/04 09/04	
				NO3	10.7	09/04	10.7	09/04	
					ND	08/97	ND	08/97	
				(; ()4					
				CLO4	ND	00/5/	110	00/01	
03	1902663	IRRIGATION	DESTROYED	PCE	2.1	06/94	2.1	06/94	
03	1902663	IRRIGATION	DESTROYED						

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AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

			1	CONCENTRA	TION /NO?	N MG# O	TUEDO III	ICH \	
WELL NAME	RECORDATION	USAGE	STATUS		HISTOR				
	NUMBER		UIAIUU	OF CONCERN	VALUE	DATE	VALUE	DATE	REMARKS
				CLO4	NA	NA	-		
03A	9000450	IDDICATION				INA	NA	NA	
USA	8000150	IRRIGATION	ACTIVE	PCE	2.5	11/99	ND	10/08	
				NO3 CLO4	2.1 ND	08/96 08/97	ND	10/08	
				0204	ND	00/97	ND	08/97	
04	1902664	IRRIGATION	INACTIVE	1,1,1-TCA	0.7	05/87	ND	11/87	
				NO3 . CLO4	NA NA	NA	NA	NA	
				OLO4	IVA	NA	NA	NA	
05	1902665	IRRIGATION	ACTIVE	PCE	39.0	09/03	35,7	10/08	
				TCE	1,3	09/03	ND	10/08	
				NO3 CLO4	18,0 ND	09/03	14.0	10/08	
				0.04	ND	08/97	ND	08/97	
06	1902666	IRRIGATION	INACTIVE	PCE	7.4	08/96	2.8	11/99	VULNERABLE
				TCE	8.3	08/96	2.9	11/99	(VOCS)
				1,1-DCA 1,1-DCE	2.0	08/96	ND	11/99	
	- 6			C-1,2-DCE	1_4 4_5	08/96 08/96	ND 0.8	11/99 11/99	
				NO3	11.6	08/96	8.4	11/99	
				CLO4	NA	NA	NA	NA	
600	8000090	IRRIGATION	INACTIVE	vocs	ND	07/00	NE		
			IIIAOTIVE	NO3	ND 4.8	07/98 07/98	ND 4.8	07/98 07/98	
				CLO4	ND	07/98	ND	07/98	
BIG RED	8800008	NON DOTABLE							
BIO NED	0000000	NON POTABLE	ACTIVE	1,2-DCA	0.6	01/96	ND	10/08	VULNERABLE
				NO3 CLO4	12.0 ND	09/02 08/97	ND	10/08	(VOCS)
				0104	140	00/97	ND	08/97	
NEW LAKE	8000089	NON POTABLE	ACTIVE	PCE	19.7	02/00	ND	11/08	VULNERABLE
				TCE	0.9	02/00	ND	11/08	(VOCS)
				CF NO3	1,3 22,0	11/08	1.3	11/08	
				CLO4	ND	02/00 08/97	12,0 ND	11/08 08/97	
SF 1	8000070	NON POTABLE	ACTIVE	TCE	4.0	00101			
			AOTIVE	PCE	4.3 7.6	09/04 09/04	ND ND	03/09 03/09	VULNERABLE
				VC	1.4	12/87	ND	10/08	(VOCS)
				NO3	16.0	09/02	11.3	03/09	
				CLQ4	ND	06/97	ND	03/09	
WHI 1	1902579	NON POTABLE	ACTIVE	PCE	3,8	09/04	2.8	10/08	VIII NEDARI E
				TCE	1.0	09/04	ND	10/08	VULNERABLE (VOCS)
				NO3	6.7	09/04	5.7	10/08	(1000)
				CLO4	ND	08/97	ND	08/97	
LOS FLORES MI	UTUAL WATER CO	MPANY			1				
HI 1	21902098	MUNICIPAL	DESTROYED	Vocs	514				1
		WOTTON AL	DESTROTED	NO3	NA NA	NA NA	NA NA	NA	131
				CLO4	NA	NA	NA	NA NA	
LO 1	11902098	MUNICIPAL	DESTROYED						
20 ,	11502050	MONICIPAL	DESTRUYED	VOCS NO3	NA NA	NA	NA	NA	
				CLO4	NA	NA NA	NA NA	NA NA	
LOUCKS, DAVID							177	140	
LOUGHO, DAVID									
NA	8000032	DOMESTIC	INACTIVE	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
MAECHTLEN ES	TATE								
M-N	1902323	DOMESTIC	INACTIVE	vocs	NA	NA	λια		
				NO3	NA NA	NA NA	NA NA	NA NA	
				CLO4	NA	NA	NA NA	NA NA	

APPENDIX C
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AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

				CONCENTRA	TION (NO.3 II	N MG/I O'	THERS IN I	IG/L)		
WELL NAME	RECORDATION	USAGE	STATUS	CONCENTRA	HISTORI		MOST R		REMARKS	
WELL WANTE	NUMBER	COACL	SIAIDO	OF CONCERN	VALUE	DATE	VALUE	DATE		
OLD60	1902321	DOMESTIC	INACTIVE	vocs	NA	NA	NA	NA		
OLDOU	1902321	DOMESTIC	IIIACITYL	NO3	NA	NA	NA	NA		
				CLO4	NA	NA	NA	NA		
CAUDO	4000000	DOMESTIC	INACTIVE	vocs	NA	NA	NA	NA		
SNIDO	1902322	DOMESTIC	IIIAOIIVE	NO3	NA	NA	NA	NA		
				CLO4	NA	NA	NA	NA		
MANNING BRO	THERS ROCK AND	SAND COMPAN	IY							
						10/70	400.0	04.00		
36230	1900117	INDUSTRIAL	DESTROYED	TCE NO3	520.0 NA	12/79 NA	100.0 NA	01/80 NA		
				CLO4	NA	NA	NA	NA		
MAPLE WATER	R COMPANY									
01	8000109	MUNICIPAL	DESTROYED	vocs	ND	06/89	ND	07/96		
				NO3	68.0	09/94	55.5	07/96		
				CLO4	NA	NA	NA	NA		
02	1900042	MUNICIPAL	DESTROYED	vocs	ND	06/89	ND	07/96		
				NO3	62.7	11/89	55.3	07/96		
				CLO4	NA	NA	NA	NA		
MARTINEZ, FR	RANCES M.									
	0000000	DOMESTIC	INIA CTIVE	vocs	NA	NA	NA	NA		
NA	8000033	DOMESTIC	INACTIVE	NO3	NA	NA	NA	NA		
				CLO4	NA	NA	NA	NA		
METPOPOLITA	AN WATER DISTRIC	T OF SOUTHER	N CALIFORNIA							
INCTROT OLIT	AN WATER DIOTRIC	or or occurrent	IN OALL ONIN							
02	1900693	NON-POTABLE	DESTROYED		NA	NA	NA	NA NA		
				NO3 CLO4	NA NA	NA NA	NA NA	NA		
03	1900694	NON-POTABLE	DESTROYED		NA	NA NA	NA NA	NA NA		
				NO3 CLO4	NA NA	NA NA	NA	NA		
MILLER COOR	RS LLC (MILLER BR	REWING COMPA	IY)							
01	8000075	INDUSTRIAL	INACTIVE	vocs	ND	01/92	ND	06/08		
		75		NO3	9.8	01/93	4.7	06/08		
				CLO4	ND ,	06/97	ND	06/08		
02	8000076	INDUSTRIAL	INACTIVE	vocs	ND	01/92	ND	05/08		
				NO3	14.0	10/92	3,4	05/08 05/08		
				CLO4	ND	06/97	ND	03/06		ì
N BREWER	8000034	INDUSTRIAL	INACTIVE	vocs	NA	NA	NA	NA		
				NO3	NA	NA NA	NA NA	NA NA		
				CLO4	NA	IVA	INA	11/2		
MONROVIA, C	CITY OF									
01	1900417	MUNICIPAL	DESTROYED	TCE	46.8	11/92	12.0	04/02		
01	1050-111		3	PCE	3.9	03/81	0.8	04/02		
				1,1-DCE	1.2	08/96	0.9	04/02		
				1,1,1-TCA CF	2.1 3.2	0B/87 07/01	ND 3.2	07/01 07/01		
				NO3	78.0	02/01	60.0	03/02		
				CLO4	11.1	02/01	8.4	04/02		
00	4000440	MILINICIDAL	ACTIVE	TCE	167.0	08/82	7.8	03/09	VULNERABLE	
02	1900418	MUNICIPAL	AUTIVE	PCE	11.0	08/82	0.6	03/09	(CLO4) (1)	
				1,1,1-TCA	7.1	02/87	ND	07/08		
				1,1-DCE	3.4	06/87	ND	03/09		

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	DECORDATION		Y	CONCENTRA	TION (NO3 I	N MG/L, O	THERS IN U	JG/L)	
WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONTAMINANT	HISTORI		MOSTR		REMARKS
	NOMBER			OF CONCERN	VALUE	DATE	VALUE	DATE	
							1		be
				1,2-DCA	1.5	02/87	ND	07/08	
				CF NO3	2.2 65.6	07/07	1,2	07/08	
				CLO4	6.0	12/91 01/05	62.0 5.5	03/09 03/09	
				CLO4	0.0	01/05	5.5	03/09	
03	1900419	MUNICIPAL	ACTIVE	TCE	18.0	08/82	3,4	04/09	VULNERABLE
				PCE	17.0	08/82	ND	04/09	(VOCS AND NO3)
				1,1-DCE	0,8	12/08	ND	04/09	
				CF	1.8	07/08	1.8	07/08	
				NO3 CLO4	49.6	05/76	19.0	04/09	
				OLO4	ND	08/97	ND	07/08	
04	1900420	MUNICIPAL	ACTIVE	TCE	6.5	02/91	ND	04/09	VULNERABLE
				PCE	1.0	02/91	ND	04/09	(VOCS AND NO3)
				1,1-DCE	1.1	01/05	ND	04/09	
				MC	2.5	05/89	ND	07/08	
				CF	0.7	07/02	ND	07/08	
				NO3 CLO4	28.8 ND	06/91	10.0	04/09	
				CLO4	ND	08/97	ND	07/08	
05	1940104	MUNICIPAL	ACTIVE	TCE	5.1	01/91	0.9	04/09	VULNERABLE
				PCE	1.0	10/02	ND	04/09	(VOCS AND NO3)
				1,1-DCE	1.0	10/02	ND	04/09	
				MC	4.9	05/89	ND	07/08	
				CF	1.2	07/02	ND	07/08	
				NO3 CLO4	29.4 ND	01/91	10.0	07/08	
				CLO4	ND	08/97	ND	07/08	
06	8000171	MUNICIPAL	ACTIVE	TCE	9.7	08/04	6.9	04/09	VULNERABLE
				PCE	1.7	02/04	0.9	04/09	(NO3)
				1,1-DCE	0,8	10/07	ND	04/09	
				CF	1,0	08/04	ND	07/08	
				NO3	37.4	10/04	28.0	04/09	
				CLO4	ND	10/99	ND	07/08	
MONROVIA NU	RSERY								
DIVIA	4000450	IDDIGATION							
DIV 4	1902456	IRRIGATION	DESTROYED	VOCS	ND	08/96	ND	02/07	
				NO3 CLO4	213.0 ND	09/04 02/98	202.0 ND	02/07	
				OLOT	ND	02/80	ND	02/98	
DIV 8	1902455	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
MONTEREY PA	RK. CITY OF								
ONTERET TA					30				
01	1900453	MUNICIPAL	STANDBY	PCE	64.1	12/08	46.0	05/09	VULNERABLE
				TCE	4.1	05/04	ND	05/09	(CLO4)
				1,1-DCE	0.6	05/04	ND	05/09	1740
				1,1-DCA	1.0	05/04	ND	05/09	1
				C-1,2-DCE NO3	1.0 17.0	03/04 03/09	ND 15.0	05/09	
				CLO4	4.7	05/04	15.0 ND	05/09 08/08	
				OLO (796.6	00/04	IVD	00/00	
02	1900454	MUNICIPAL	DESTROYED	PCE	6.4	04/98	6.4	04/98	
				NO3	18.3	07/95	13.0	07/97	
				CLO4	3.0	07/97	ND	03/98	
03	1900455	MUNICIPAL	STANDBY	PCE	21.0	05/04	16.0	06/00	VIII NEDADI E
			0,7,4001	TCE	2.7	05/04	16.0 0.6	05/09 05/09	VULNERABLE (CLO4)
				C-1,2-DCE	0.8	05/04	ND	05/09	(31.04)
				NO3	13.3	07/97	5.5	05/09	
				CLO4	4.2	05/04	ND	08/08	
0.1	1000:								
04	1900456	MUNICIPAL	DESTROYED	PCE	0.4	01/80	ND	11/87	
				NO3 CLO4	6.2	09/87	6.2	09/87	
				OLU4	NA	NA	NA	NA	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	RECORDATION			CONCENTRA					DEMARKS
WELL NAME	NUMBER	USAGE	STATUS	OF CONCERN	HISTORI VALUE	DATE	MOST R	DATE	REMARKS
				OF CONCERN	VALUE	DATE	VALUE	DATE	
05	1900457	MUNICIPAL	ACTIVE	TCE	7.0	01/92	3.0	05/09	VULNERABLE
				PCE	35.8	08/08	26.0	05/09	(CLO4) (1)
				C-1,2-DCE	2.0	11/01	0.9	05/09	
				1,1-DCA	1.1	11/01	0.6	05/09	
				1,1-DCE	0.7	11/01	ND	05/09	
				NO3	20.0	08/02	18.0	05/09	
				CLO4	6.5	02/01	ND	05/09	
06	1900458	MUNICIPAL	STANDBY	TCE	6.4	05/89	3.1	05/05	VULNERABLE
00	1300430	WONTON AL	STANDET	PCE	13.6	03/01	3.1	05/05	(VOCS, NO3, AND CLO4
				C-1,2-DCE	1.3	01/99	1.2	05/05	(1000),1100),1110,0110
				1,1-DCA	8.0	11/01	0.6	05/05	
				NO3	30.0	06/03	24.7	05/05	
				GLO4	5.9	04/02	5.9	04/02	
									100 NEDADI 5
07	1902372	MUNICIPAL	ACTIVE	PCE CF	4.4 3.6	08/05 07/98	3.6 ND	05/09 08/08	VULNERABLE (VOCS)
				NO3	12.8	08/89	2.3	08/08	(1000)
				CLO4	ND	08/97	ND	08/08	
08	1902373	MUNICIPAL	ACTIVE	PCE	2.5	02/05	1.9 ND	03/09	
				NO3 GLO4	17.0 ND	08/05 08/97	ND ND	11/08 11/08	
				GLU4	ND	00191	NU	1 1/00	
09	1902690	MUNICIPAL	ACTIVE	PCE	11.0	03/04	2.9	05/09	VULNERABLE
				TCE	1.3	04/97	ND	05/09	(VOCS) (1)
				NO3	6.8	08/01	ND	05/09	
				CLO4	ND	08/97	ND	05/09	
10	1902818	MUNICIPAL	STANDBY	PCE	14.0	05/04	11.0	05/09	VULNERABLE
10	1002010	Morrion 712	077111001	TCE	2.6	05/04	0.6	05/09	(NO3 AND CLO4)
				C-1,2-DCE	0.8	05/04	ND	05/09	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				NO3	27.1	08/07	17.0	05/09	
				CLO4	4.3	05/04	ND	08/08	
40	4000000	MUNICIPAL	AOTIVE	PCE	85.0	05/02	38.0	05/09	VULNERABLE
12	1903033	MUNICIPAL	ACTIVE	TCE	5.4	10/95	2.8	05/09	(NO3 AND CLO4) (1)
					1.0	11/08	0.7	05/09	(1403 AND CEO4) (1)
				1,1-DCA					
				C-1,2-DCE	1.1	08/05	0.8	05/09	
				NO3 CLO4	27.2 15.0	08/07 09/97	14.0 ND	05/09 05/09	
14	1903092	MUNICIPAL	ACTIVE	PCE	2.2	05/02	0.7	05/06	VULNERABLE
				TCE	2.9	11/02	1.5	05/06	(VOCS)
				1,1-DCA	0.8	08/02	ND	05/06	
				C-1,2-DCE	1.0	11/02	ND	05/06	
				NO3	10.0	10/06	10.0	10/06	
				CLO4	ND	08/97	ND	05/03	
15	8000196	MUNICIPAL	ACTIVE	PCE	128.0	11/08	85.0	05/09	VULNERABLE \
				TCE	3.4	07/06	2,5	05/09	(NO3) (1)
				NO3	23.0	11/08	22.0	05/09	
				CLO4	2.4	07/06	ND	05/09	
FFB	0000100	AALINIIGIDA	OTALIDDY	005	0.0	00/00	7.0	05/00	
FERN	8000126	MUNICIPAL	STANDBY	PCE TCE	9.9 2.3	09/08 08/02	7.8 ND	05/09 05/09	
				C-1,2-DCE	0.7	03/04	ND	05/09	
				NO3	6.5	03/04	ND	03/09	
				CLO4	2.0	08/97	ND	03/09	
AMIMATSU F	ARMS								
NIC	4004004	IDDIG ****	INIA CT'S IT	V000	616	A14	NI A	NIA	
NA	1901034	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3 CLO4	NA NA	NA NA	NA NA	AA AA	
						,			
WL ROCK PE	RODUCTS COMPAN	IY							
NA	1903119	INDUSTRIAL	INACTIVE	vocs	ND	05/87	ND	11/08	
14/4	פווטטוו	NADOO I NIAL	INACTIVE	V003	NU	00/07	,10	, 00	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	RECORDATION			CONCENTRA					
WELL NAME	NUMBER	USAGE	STATUS	CONTAMINANT	HISTORI	C HIGH	MOST R	ECENT	REMARKS
~		ļ	l	OF CONCERN	VALUE	DATE	VALUE	DATE	
				Non	0.7	00100	0.0	44100	
				NO3 CLO4	8.7 NA	08/89 NA	2.3 NA	11/08 NA	
				0204	IVA	INA	1474	IVA	
NA	1900043	INDUSTRIAL	INACTIVE	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
NA	1902241	INDUSTRIAL	ACTIVE	vocs	ND	10/02	ND	11/04	
1973	1302241	INDOGTNIAL	ACTIVE	NO3	ND	10/02	ND	11/04	
				CLO4	NA	NA	NA	NA	
ICO COUNTY	WATER DISTRICT		9						
NA	8000040	MUNICIPAL	INACTIVE	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
OLOPOLUS E	ET AL.								
01	1902169	IRRIGATION	INACTIVE	PCE	330.0	10/96	270.0	03/98	VULNERABLE
				TCE 1,1-DCA	498.9 22.0	09/92 03/98	180.0	03/98	(NO3)
				1,2-DCA	1.2	06/96	22.0 0.9	03/98 03/98	
				1,1-DCE	115.3	09/92	22.0	03/98	
				T-1,2-DCE	1.5	06/87	ND	03/98	
				1,1,1-TCA	53.0	09/92	12.0	03/98	
				CTC	8.0	06/96	0.6	03/98	
				NO3	50.8	07/91	29.7	03/98	
				CLO4	ND	03/98	ND	03/98	
ICHWOOD MI	UTUAL WATER CO	MPANY							
NORTH 2	1901522	MUNICIPAL	DESTROYED	PCE	93.0	05/83	4.0	12/93	
				TCE	3.0	03/81	ND	05/92	
				CTC	0.2	10/80	ND	05/92	
				NO3	25.0	02/84	19.7	06/99	
				CLO4	NA	NA	NA	NA	
SOUTH 1	1901521	MUNICIPAL	DESTROYED	PCE	96.0	05/83	3.4	12/93	
				TCE	0.7	12/82	ND	05/92	
				NO3	28.6	06/99	28.6	06/99	
				CLO4	NA	NA	NA	NA	
OY, RUTH									
		*							
NA	8000041	DOMESTIC	INACTIVE	vocs	NA.	NA	NA	NA	
				NO3 CLO4	NA NA	NA NA	NA NA	NA NA	
				OLO-i	1975	13/7	11/5	IVA	
URBAN HOMI	ES MUTUAL WATE	R COMPANY							}
NORTH 1	1900120	MUNICIPAL	ACTIVE	PCE	16.0	11/80	ND	06/09	VULNERABLE
				1,1-DCE	0.9	09/08	ND	06/09	(VOCS AND NO3)
				CF	0.8	02/02	ND	09/08	,
				FREON 11	13.3	05/04	ND	06/09	
				FREON 113	64.4	05/04	ND	06/09	
				NO3 CLO4	30.0 ND	03/01	12.0	06/09	
				CLO4	IAD	09/97	ND	09/08	
		MUNICIPAL	ACTIVE	PCE	24.3	02/81	ND	06/09	VULNERABLE
SOUTH 2	1900121			1,1-DCE	1.7	10/08	ND	06/09	(VOCS: AND NO3)
SOUTH 2	1900121				3.8	02/02	ND	09/08	
SOUTH 2	1900121			CF					
SOUTH 2	1900121			FREON 11	14.1	05/04	ND	06/09	
SOUTH 2	1900121			FREON 11 FREON 113	14.1 54.2	05/04 05/04	ND ND	06/09 06/09	
SOUTH 2	1900121			FREON 11 FREON 113 MC	14.1 54.2 1.1	05/04 05/04 08/02	ND ND ND	06/09 06/09 09/08	
SOUTH 2	1900121			FREON 11 FREON 113	14.1 54.2	05/04 05/04	ND ND	06/09 06/09	

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APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	RECORDATION CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)							10/11	
WELL NAME	RECORDATION	USAGE	STATUS		HISTOR				
	NUMBER		JIATOS	OF CONCERN	VALUE	DATE	MOST R	DATE	REMARKS
							171202	DATE	
01	1900547	IRRIGATION	ACTIVE	1/000	LUD.				
٠.	1000047	INCIGATION	ACTIVE	VOCS NO3	ND 67.0	05/85 07/96	ND	08/05	VULNERABLE
				CLO4	8.5	07/97	54.0 5.4	08/05 08/05	(CLO4)
02	4000070						700	00,00	
02	1902979	IRRIGATION	ACTIVE	VOCS	ND	05/87	ND	08/05	VULNERABLE
				NO3 CLO4	23.0 1.4	10/02 12/97	20,3 1.1	08/05 08/05	(NO3)
					1.4	12/01	1.1	00/00	
SAN GABRIEL	COUNTY WATER D	ISTRICT							
05 BRA	1901669	MUNICIPAL	INACTIVE	TCE	0.9	01/97	ND	03/01	
				PCE	1.9	02/99	1.0	03/01	
				NO3	83.9	08/89	70.7	03/01	
				CLO4	ND	09/97	ND	09/00	
06 BRA	1901670	MUNICIPAL	DESTROYED	vocs	ND	02/99	ND	02/99	
				NO3	108.9	08/72	57.6	03/00	
				CLO4	3.0	02/99	3.0	02/99	
07	1901671	MUNICIPAL	ACTIVE	vocs	ND	09/89	ND	10/08	VIII NEDADI E
				NO3	48.0	03/03	34.0	04/09	VULNERABLE (NO3 AND CLO4)
				CLO4	5.6	03/03	ND	04/09	(1100 1110 0204)
08	1901672	MUNICIPAL	INACTIVE	vocs	ND	01/90	ND	00/04	
	.001012	MONION AL	IIVACTIVE	NO3	76.0	01/90	ND 23,4	03/91 08/93	VULNERABLE (NO3)
				CLO4	NA	NA	NA	NA	(1103)
09	1902785	MUNICIPAL	ACTIVE	DOE	2.0	0.4.100			
00	1002103	MUNICIPAL	ACTIVE	PCE NO3	2.0 51.0	01/09 03/03	1.5 21.0	04/09 04/09	VULNERABLE
				CLO4	ND	09/97	ND	07/08	(NO3)
10	1902786	AU INIOIDAI							
10	1902700	MUNICIPAL	INACTIVE	PCE NO3	18.0 50.0	08/93	1.9	11/98	VULNERABLE
				CLO4	5.5	05/89 11/98	31.0 5.5	11/98 11/98	(VOCS, NO3, AND CLO4)
44							010	11100	
11	8000067	MUNICIPAL	ACTIVE	PCE	2.0	06/89	1,1	04/09	VULNERABLE
				NO3 CLO4	32,2 ND	04/04 09/97	16.0 ND	04/09 07/08	(NO3)
				0201	ND.	05/31	ND	07/00	
12	8000123	MUNICIPAL	ACTIVE	TCE	0.8	09/02	ND	07/08	
				MC NO3	0.6 7.0	05/90 10/01	ND 5.4	07/08	
				CLO4	ND	09/97	5.4 ND	10/08 07/08	
1.1	0000400								
14	8000133	MUNICIPAL	ACTIVE	PCE NO3	0.6 3.8	09/02	ND	07/08	
				CLO4	ND ^t	12/02 09/97	2.3 ND	07/08 07/08	
CAN CARRIEL I	(A) (E) (01100	
SAN GABRIEL V	ALLEY WATER CO	MPANY							1
84B	1902858	MUNICIPAL	ACTIVE	TCE	25.2	02/08	25.2	02/08	(1)
				PCE	43.0	11/07	5.8	02/08	(1)
				CTC	10.0	11/03	6.6	02/08	
				1,2-DCA 1,1-DCE	1.0	09/07	0.5	02/08	
				C-1,2-DCE	3.2 4.2	11/07 11/07	2.3	02/08 02/08	
				NO3	13.1	11/07	13.1	11/07	
				CLO4	24.5	04/08	24.5	04/08	
B4C	1902947	MUNICIPAL	INACTIVE	стс	22.3	02/01	14.0	00/04	V// II AVETS - T. T.
			HACTIVE	TCE	15.5	02/01	14_0 9_3	08/01 08/01	VULNERABLE (CLO4) (1)
				PCE	3.4	02/01	2.2	08/01	(0204)(1)
				1,1-DCE	2.3	09/01	2.3	09/01	
				C-1,2-DCE NO3	2.4	09/01		09/01	
				NO3 CLO4	14.2 6.0	02/01 06/00		02/01 07/00	
200					0	00100	170	31,00	
B5A	190071B	MUNICIPAL	ACTIVE	PCE	17.5	03/91	ND	11/05	VULNERABLE

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	RECORDATION			CONCENTRA	ATION (NO3	IN MG/L, O	THERS IN	UG/L)	
WELL NAME	NUMBER	USAGE	STATUS	CONTAMINANT	HISTOR			RECENT	REMARKS
	NOMBER			OF CONCERN	VALUE	DATE	VALUE	DATE	KEMAKKO
				TCE	5.2	03/98	ND	11/05	ALOGO NOS AND OLOGO
				1,1-DCE	2.5	03/85	ND	08/05	(VOCS, NO3, AND CLO4)
				CTC	1.1	12/91			
				1,1,1-TCA			ND	11/05	
					3.7	03/90	ND	08/05	
				CF	1.4	08/01	1:1	08/05	
				NO3	46.1	07/96	25.3	11/05	
				CLO4	14.0	06/97	4.0	08/05	
85B	1900719	MUNICIPAL	ACTIVE	TCE	5.8	02/97	5.6	05/09	
				PCE	3.9	02/09	3.1	05/09	
				CTC	2.3	02/85	0.6	05/09	
				1,2-DCA	0.6	09/07	0.5	05/09	
				CF	2.4	01/07	1.2	05/09	
				NO3	54.0	11/08	50.0	05/09	
				CLO4	12.0	06/97	12.0	05/09	
B5C	8000112	MUNICIPAL	ACTIVE	vocs	ND	05/89	ND	00/07	
				NO3	3.8	05/07		08/07	
				CLO4			3.8	05/07	
				GL04	ND	06/97	ND	03/08	
B5D	8000160	MUNICIPAL	ACTIVE	CTC	0.7	05/09	0.7	05/09	
				NO3	4.9	08/08	3.8	05/09	
				CLO4	ND	12/97	ND	05/09	
B5E	8000205	MUNICIPAL	INACTIVE	TCE	6.2	05/09	6.2	05/09	VULNERABLE
				PCE	0.8	05/09	0.8	05/09	(NO3) (2)
				CTC	5,2	05/07	2.5	05/09	(1405) (2)
				CF	3.9	01/07	0.4		
				NO3	23.0	08/07		05/09	
				CLO4			15.0	05/09	
				CLO4	8.1	05/07	7.6	05/09	
B6B	1900721	MUNICIPAL	DESTROYED	TCE	111.0	02/85	35.8	09/92	
				PCE	6.4	10/81	4.3	09/92	
				CTC	17.0	02/85	5.0	09/92	
				1,1-DCE	1.1	04/85	0.5	09/92	
				1,1-DCA	0.6	09/92	0.6	09/92	
				1,2-DCA	8.3	09/92	8.3	09/92	
				NO3	85.4	02/91	57.2	09/92	
				CLO4	NA	NA	NA	NA	
B6C	1903093	MUNICIPAL	ACTIVE	TCE	84.0	03/88	6.9	02/09	743
				PCE	12.0	11/81	0.7		(1)
				CTC	13.0			02/09	
				1,2-DCA	9.0	02/85	ND	02/09	
				1,1-DCE		05/88	0.7	02/09	
					1.5	06/94	ND	02/09	
				C-1,2-DCE	6.2	04/88	ND	02/09	
				CF	1.7	04/04	0.8	02/09	
				NO3	87.0	09/08	81.0	02/09	
				CLO4	370.0	11/05	27.0	02/09	
B6D	8000098	MUNICIPAL	ACTIVE	TCE	87.0	05/09	87.0	05/09	(1)
				PCE	7.1	05/09	7.1	05/09	
				CTC	8.8	04/96	4.5	05/09	
				1,1-DCA	1.1	05/09	1.1	05/09	
				1,2-DCA	3.5	05/09	3.5	05/09	
				1,1-DCE	1.0	08/08	1.0	05/09	
				C-1,2-DCE	2.8	05/09			
				CF CF	2.0		2.8	05/09	
				NO3		05/09	2.9	05/09	
				CLO4	21.6 390.0	11/08 11/05	21.2 90.0	05/09 05/09	
11A	1900739	MINIOPA	AOTN C						
IIA	1900/39	MUNICIPAL	ACTIVE	PCE	1.5	02/08	0.9	05/09	
				NO3	14.7	07/89	3.5	09/08	
				CLO4	ND	08/97	ND	03/08	
11B	1900745	MUNICIPAL	ACTIVE	PCE	17.8	04/90	1.8	05/09	VULNERABLE
				TCE	4_0	04/90	ND	05/09	(VOCS) (1)
				1,1-DGE	0.2	04/89	ND	08/08	(**************************************
				C-1,2-DCE	3.0	04/89	ND	08/08	
					0.0	0.1100	NU	20100	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	PECOPDATION			CONCENTRA					
WELL NAME	RECORDATION	USAGE	STATUS	CONTAMINANT	HISTORI	C HIGH	MOSTR	ECENT	REMARKS
	NUMBER			OF CONCERN	VALUE	DATE	VALUE	DATE	
				NO3	18.3	08/06	14.0 ND	08/08	
				CLO4	ND	06/97	ND	03/08	
11C	1902713	MUNICIPAL	ACTIVE	PCE	4.1	12/91	1.1	05/09	VULNERABLE
				TCE	0.6	12/91	ND	08/08	(VOCS)
				1,1-DCE	1.1	08/08	ND	05/09	, ,
				C-1,2-DCE	2.5	03/92	ND	05/09	
				NO3	12.0	08/06	6.6	09/08	
				CLO4	ND	08/97	ND	03/08	
1B	1900729	MUNICIPAL	ACTIVE	PCE	46.0	04/81	ND	05/09	VULNERABLE
10	1300123	WONG!! AL	ACTIVE	TCE	1.8	02/80	ND	09/08	(VOCS)
				MC	7.1	04/87	ND	09/08	(1455)
				FREON 113	22.3	08/08	ND	02/09	
				NO3	22.4	05/08	16.0	05/09	
				CLO4	1.1	03/08	1.1	03/08	
1C	1902946	MUNICIPAL	ACTIVE	vocs	ND	07/98	ND	08/08	
				NO3	5.0	07/89	3.8	08/08	
				CLO4	ND	10/99	ND	03/08	
1D	8000102	MUNICIPAL	ACTIVE	vocs	ND	07/98	ND	08/08	
				NO3	5.0	07/89	4.1	11/08	
				CLO4	ND	08/97	ND	03/08	
4.5	0000.70		4.070.15	DOE	0.7	00/00	ND	05/00	VIII NEDADI E
1E	8000172	MUNICIPAL	ACTIVE	PCE	0.7	09/02	ND	05/09	VULNERABLE
				NO3	4.3	11/00	3.8	11/08	(CLO4)
				CLO4	5.0	06/00	ND	03/08	
2C	1900749	MUNICIPAL	ACTIVE	TCE	15.2	12/80	ND	11/05	VULNERABLE
				PCE	3.0	10/87	ND	11/05	(VOCS)
				NO3	16.4	08/04	5.2	08/05	
				CLO4	ND	08/97	ND	02/03	
2D	1902857	MUNICIPAL	ACTIVE	TCE	25.0	12/80	ND	05/09	VULNERABLE
20	1902001	WONIGIFAL	ACTIVE	PCE	0.7	01/88	ND	08/08	(VOCS)
				NO3	8.2	07/86	3.2	08/08	(0000)
				CLO4	ND	08/97	ND	03/08	
2E	8000065	MUNICIPAL	ACTIVE	TCE	18.0	01/80	0.5	05/09	VULNERABLE
				PCE	0.9	01/88	ND	08/08	(VOCS)
				NO3	9.1	07/86	7.1	08/08	
			(8)	CLO4	ND	08/97	ND	03/08	
2F	8000197	MUNICIPAL	ACTIVE	TCE	8.0	06/08	0.7	06/09	
				NO3	4.3	09/06	3.7	08/08	
				CLO4	ND	09/06	ND	03/08	
			500					00107	AND MEDABLE
8A	1900736	MUNICIPAL	INACTIVE	PCE	0.6	11/87	ND	02/97	VULNERABLE
				NO3	40.2	02/97	40.2	02/97	(NO3)
				CLO4	NΑ	NA	NA	NA	1
8B	1900746	MUNICIPAL	ACTIVE	PCE	220.0	02/09	180.0	05/09	VULNERABLE
				TCE	0.7	05/09	0.7	05/09	(NO3) (1)
				NO3	23.0	08/08	23.0	08/08	
				CLO4	3.0	08/97	1.8	03/08	
90	4000747	MUNICIDA	ACTIVE	PCE	170.0	05/09	170.0	05/09	VULNERABLE
8C	1900747	MUNICIPAL	ACTIVE	TCE	0.8	05/09	0.8	05/09	(CLO4) (1)
				NO3	20.0	05/09	15.0	11/08	(0204)(1)
				CLO4	4.0	03/08	4.0	03/08	
8D	1903103	MUNICIPAL	ACTIVE	PCE	62.3	02/09	44.0	06/09	VULNERABLE
				TCE	0.6	08/04	0.6	06/09	(NO3) (1)
				C-1,2 DCE	0.8	05/04	ND	06/09	
				CTC	0.6	06/88	ND	06/09	
				NO3	29.0	06/09	29.0	06/09	
				CLO4	2.3	03/08	2.3	03/08	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

			1	CONCENTRA	TION (NO3 I	N MG/L. O	THERS IN I	IG/L)	I
WELL NAME	RECORDATION	USAGE	STATUS	CONTAMINANT	HISTORI		MOSTR		REMARKS
	NUMBER			OF CONCERN	VALUE	DATE	VALUE	DATE	REWARKS
8E	8000113	MUNICIPAL	ACTIVE	PCE	440.0	00100			1
	0000110	MOMON AL	ACTIVE	NO3	140.0 7.2	05/09	140.0	05/09	
				CLO4	ND	07/01 08/97	2.6 ND	11/08 03/08	
				OLO+	NO	00/9/	ND	03/08	
8F	8000169	MUNICIPAL	ACTIVE	VOCS	ND	10/98	ND	08/08	
				NO3	9.6	11/07	2.6	11/08	
				CLO4	ND	01/99	ND	03/08	
B1	1902635	MUNICIPAL	ACTIVE	TOE	40.0	0.440			
Di	1302033	WONICIPAL	ACTIVE	TCE PCE	12.0	04/85	ND	08/06	VULNERABLE
				C-1,2-DCE	7.3 7.2	05/88 12/92	ND ND	08/06	(VOCS)
				1,1-DCE	2.1	08/89	ND	08/06 08/06	
				NO3	17.4	02/87	3.5	03/05	
				CLO4	ND	08/97	ND	02/03	
	4000000								
B2	1902525	MUNICIPAL	INACTIVE	TCE	17.0	03/80	ND	11/98	VULNERABLE
				PCE	15.8	06/80	0.7	11/98	(VOCS)
				CTC 1,2-DCA	1.7	05/82	ND	11/98	
				1,1,1-TCA	7.7	07/82	ND	11/98	
				C-1,2-DCE	7.6 2,6	07/82 08/93	ND	11/98	
				NO3	8.7	11/98	ND 8.7	11/98 11/98	
				CLO4	ND	11/98	ND	11/98	
						11700	140	11/30	
B11A	1901439	MUNICIPAL	ACTIVE	TCE	9.8	08/01	5.8	08/04	VULNERABLE
				PÇE	21.7	05/92	8.5	08/04	(NO3 AND CLO4) (1)
				1,1-DCE	14.0	08/01	2.8	08/04	
				CTC	0.9	01/88	ND	08/04	
				C-1,2-DCE	1.5	08/01	0.6	09/04	
				1,1-DCA	1.0	08/01	ND	08/04	
				NO3	37.7	03/00	36.5	08/04	
				CLO4	8.0	12/97	ND	08/04	
B11B	8000108	MUNICIPAL	ACTIVE	TCE	20.0	02/97	8.5	05/09	VULNERABLE
				PCE	34.5	06/92	9.8	05/09	(NO3 AND CLO4) (1)
				1,1-DCE	33.7	03/90	14.0	05/09	(1.001,11.000.01)(1)
				1,1-DCA	2.6	12/88	1.2	05/09	
				1,1,1-TCA	2.9	10/88	ND	11/08	
				C-1,2-DCE	3.6	03/05	1.3	05/09	
				NO3	35.9	02/97	19.0	05/09	
				CLO4	7.0	06/00	2,5	03/08	
B7B	1901440	MUNICIPAL	DESTROYED	TCE	2.4	03/85	2.4	03/85	
				PCE	1.4	03/85	1.2	03/85	
				NO3	12.4	08/87	12.4	08/87	
				CLO4	NA .	NA	NA	NA	
P.F.O.									
B7C	8000068	MUNICIPAL	ACTIVE	TCE	11.3	12/93	2,8	05/09	VULNERABLE
				PCE	35.0	03/03	7.8	05/09	(NO3) (1)
				1,1-DCE C-1,2-DCE	6.7	12/89	1.6	05/09	X
				CTC	4.7	12/93	0.6	05/09	iā i
				NO3	0.6 28.4	02/89	ND	08/09	
				CLO4	ND	08/92 06/97	10.0 ND	08/08	
				0201	140	00/8/	ND	03/08	
B7D	8000094	MUNICIPAL	INACTIVE	PCE	5.3	07/87	3.5	09/87	VULNERABLE
				TCE	3.9	07/87	3.3	09/87	(VOCS)
				1,1-DCE	5.3	05/87	5.0	09/87	,
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
B7E	8000122	MUNICIPAL	ACTIVE	vocs	ND	09/00	ND	00/00	
				NO3	16.0	08/90 11/08	ND 2.9	08/08	
				CLO4	ND	06/97	Z.9 ND	05/09 03/08	
								30,00	
B8	1901436	MUNICIPAL	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

				CONCENTRA	RATION (NO3 IN MG/L, OTHERS IN UG/L)			IG/L)	
WELL NAME	RECORDATION	USAGE	STATUS	CONTAMINANT	HISTORIC		MOST R		REMARKS
	NUMBER			OF CONCERN	VALUE	DATE	VALUE	DATE	
89	1901437	MUNICIPAL	INACTIVE	TCE	37.0	02/85	34,7	01/87	
				PCE	4.9	01/87	4.9	01/87	
				CTC	8.3	01/87	8.3	01/87	
				NO3	84.7	02/86	68.1	02/87	
				CLO4	NA	NA	NA	NA	
B9B	8000099	MUNICIPAL	ACTIVE	vocs	ND	06/87	ND	08/08	
				NO3	4.5	06/87	3.4	09/08	
				CLO4	1.2	03/08	1.2	03/08	
044	4000705	La constant		200					
G4A	1900725	MUNICIPAL	ACTIVE	PCE	6.6	08/08	4.6	05/09	VULNERABLE
				TCE NO3	1.3 24.9	11/97 02/08	1.1 20.0	05/09 05/09	(VOCS AND NO3)
				CLO4	1.0	03/08	1.0	03/08	
				0201	7.0	00/00	1.0	00,00	
B24A	8000203	MUNICIPAL	ACTIVE	VOCS	ND	01/07	ND	02/09	
				NO3	2.2	01/07	ND	02/09	
				CLO4	ND	01/07	ND	08/08	
B24B	8000204	MUNICIPAL	ACTIVE	PCE	2.1	05/07	ND	02/09	
5246	0000204	MIDINION AL	AOTIVE	TCE	0.7	05/07	ND	02/09	
				NO3	4.4	02/09	4.4	02/09	
				CLO4	ND	01/07	ND	08/08	
B25A	8000187	MUNICIPAL	ACTIVE	TCE	60.3	02/08	28.0	05/09	(1)
(SA3-1S)				PCE	28.0	05/08	18.0	05/09	
				CTC 1,2-DCA	5.9 1.4	10/07 10/07	1.1 ND	05/09 05/09	
				1,1-DCE	6.6	02/08	3.1	05/09	
				C-1,2-DCE	6.3	08/07	2.5	05/09	
				CF	1.7	10/07	1.2	05/09	
				NO3	78.0	05/09	78.0	05/09	
				CLO4	39.6	05/08	19.0	05/09	
B25B	8000188	MUNICIPAL	ACTIVE	TOE	04.0	00/00	0.0	05100	MANAGRARIE
(SA3-1D)	0000100	MUNICIPAL	ACTIVE	TCE PCE	21.0 7.6	03/09 03/09	0.8 ND	05/09 05/09	VULNERABLE (VOCS, NO3 AND CLO4) (1)
(5/3-10)				CTC	10.0	09/04	ND	05/09	(VOCS, NOS AND GEO4) (1)
				1,1-DCA	1.2	10/07	ND	05/09	
				1,1-DCE	2.6	03/09	ND	05/09	
				C-1,2-DCE	2.2	04/09	ND	05/09	
				NO3	27.0	05/09	27.0	05/09	
				CLO4	7.9	08/08	ND	05/09	
B26A	8000189	MUNICIPAL	ACTIVE	TCE	57.0	05/09	57.0	05/09	(1)
(SA3-2S)	0000109	MONICIFAL	ACTIVE	PCE	5.7	05/09	5.7	05/09	(1)
(0) 10 =0)				CTC	2.8	05/09	2.8	05/09	
				1,1-DCA	8.0	05/09	0.8	05/09	
				1,2-DCA	4.3	11/04	3.3	05/09	
				1,1-DCE	1.0	02/09	1.0	05/09	
				C-1,2-DCE	3.3	05/06	2.7	05/09	1
				CF	3.1	07/06	2.0	05/09	I .
				NO3 CLO4	60.0 87.0	05/09 07/06	57.0 58.0	05/09 05/09	
				0.04	0110	07,00	0010	05/00	
B26B	8000190	MUNICIPAL	ACTIVE	TCE	31.0	05/09	31.0	05/09	(1)
(SA3-2D)				PCE	1.0	05/09	1.0	05/09	
				CTC	16.6	02/09	16.0	05/09	
				1,2-DCA CF	1.0 1.0	05/09 05/09	1.0 1.0	05/09 05/09	
				NO3	13.0	07/08	13.0	05/09	
				CLO4	23.0	04/09	23.0	05/09	
SIERRA LA VE	RNE COUNTRY CLU	JB							
01	8000124	IRRIGATION	ACTIVE	vocs	ND	08/96	ND	10/07	
51			AOTIVE	NO3	10.5	05/99	ND	10/07	
				CLO4	ND	03/98	ND	03/98	
0.0	9000405	IDDICATION	A OT!! (E	MO	0.5	40/00	0.5	10/00	VAII MEDADI E
02	8000125	IRRIGATION	ACTIVE	MC	0.5	10/08	0.5	10/08	VULNERABLE

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION	N		CONCENTRA			THERS IN L	JG/L)	
TYLLE MANIE	NUMBER	USAGE	STATUS	CONTAMINANT	HISTORIC	HIGH	MOSTR	ECENT	REMARKS
				OF CONCERN	VALUE	DATE	VALUE	DATE	
				NO3	17.4	08/96	ND	10/08	(CLO4)
				CLO4	28.0	03/98	ND	04/98	(CLO4)
SLOAN RANCH	HES								
JEORIT ITAITO	123								
01	1901198	IRRIGATION	INACTIVE	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
02	8000045	IRRIGATION	INACTIVE	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
ONOCO PROI	DUCTS COMPAN	ΙΥ							
01	1912786	INDUSTRIAL	ACTIVE	TCE	28.6	12/00	0.6	10/05	VIIINEDADIE
			AGTIVE	PCE	8.5	12/99 12/99	0.6 ND	12/05 12/05	VULNERABLE (VOCS)
				1,1-DCE	113.0	12/99	1.0	12/05	(1000)
				1,1,1-TCA	71.8	12/99	ND	12/05	
				CTC	1.2	07/96	ND	12/05	
				CF NO3	1.4	07/04	0.6	12/05	
				CLO4	72.8 ND	12/05 06/98	72.8 ND	12/05 07/04	
An	4065551						שויו	01704	
02	1902971	INDUSTRIAL	ACTIVE	СТС	0.9	11/87	ND	12/05	VULNERABLE
				1,1,1-TCA	2.0	11/87	ND	12/05	(VOCS AND CLO4)
				1,1-DCE PCE	5.9 1.8	02/98	1.0	12/05	
				TCE	16.0	10/03 10/03	0.6 1.0	12/05 12/05	
				CF	1.4	09/02	1.2	12/05	
				NO3	74.5	12/05	74.5	12/05	
				CLO4	10.0	02/98	ND	07/04	
OUTH COVINA	A WATER SERVIC	CE							
102W-1	1901606	MUNICIPAL	DESTROYED	vocs	NA	NA	NA	NA	
			32017101.25	NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
OUTHERN CA									
	LIFORNIA EDISC	ON COMPANY							
110RH			A OTIVE	11000					
110RH	8000046	NON-POTABLE	ACTIVE	VOCS NO3	ND	08/89	ND	02/07	
110RH			ACTIVE	VOCS NO3 CLO4	ND 8.9 ND	02/07	8.9	02/07	
	8000046	NON-POTABLE		NO3 CLO4	8.9 ND	02/07 11/97	8.9 ND	02/07 11/97	
110RH 1EB86				NO3 CLO4 VOCS	8.9 ND NA +	02/07 11/97 NA	8.9 ND NA	02/07 11/97 NA	
	8000046	NON-POTABLE	DESTROYED	NO3 CLO4 VOCS NO3	8.9 ND NA - NA	02/07 11/97 NA NA	8.9 ND NA NA	02/07 11/97 NA NA	
1EB86	1900342	NON-POTABLE	DESTROYED	NO3 CLO4 VOCS NO3 CLO4	8.9 ND NA +	02/07 11/97 NA	8.9 ND NA	02/07 11/97 NA	
	8000046	NON-POTABLE	DESTROYED	NO3 CLO4 VOCS NO3 CLO4	8.9 ND NA NA NA 4.3	02/07 11/97 NA NA NA NA	8.9 ND NA NA NA	02/07 11/97 NA NA NA NA	VULNERABLE ,
1EB86	1900342	NON-POTABLE	DESTROYED	NO3 CLO4 VOCS NO3 CLO4 PCE TCE	8.9 ND NA - NA NA 4.3 1.3	02/07 11/97 NA NA NA 09/04	8.9 ND NA NA NA 4.1 0.7	02/07 11/97 NA NA NA O2/07 02/07	VULNERABLE (VOCS AND NO3) Ì
1EB86	1900342	NON-POTABLE	DESTROYED	NO3 CLO4 VOCS NO3 CLO4 PCE TCE NO3	8.9 ND NA NA NA 1.3 51.4	02/07 11/97 NA NA NA 09/04 09/04 09/98	8.9 ND NA NA NA 4.1 0.7 26.5	02/07 11/97 NA NA NA 02/07 02/07 02/07	
1EB86 2EB76	1900342 1900343	NON-POTABLE NON-POTABLE IRRIGATION	DESTROYED ACTIVE	NO3 CLO4 VOCS NO3 CLO4 PCE TCE NO3 CLO4	8.9 ND NA - NA NA 4.3 1.3	02/07 11/97 NA NA NA 09/04	8.9 ND NA NA NA 4.1 0.7	02/07 11/97 NA NA NA O2/07 02/07	
1EB86	1900342	NON-POTABLE	DESTROYED	NO3 CLO4 VOCS NO3 CLO4 PCE TCE NO3 CLO4 VOCS	8.9 ND NA NA NA 1.3 1.3 51.4 2.0	02/07 11/97 NA NA NA 09/04 09/04 09/98 11/97	8.9 ND NA NA NA 4.1 0.7 26.5 2.0	02/07 11/97 NA NA NA 02/07 02/07 02/07 11/97	
1EB86 2EB76	1900342 1900343	NON-POTABLE NON-POTABLE IRRIGATION	DESTROYED ACTIVE	NO3 CLO4 VOCS NO3 CLO4 PCE TCE NO3 CLO4 VOCS NO3	8.9 ND NA	02/07 11/97 NA NA NA 09/04 09/04 09/98 11/97 NA NA	8.9 ND NA NA NA 4.1 0.7 26.5 2.0 NA NA	02/07 11/97 NA NA NA 02/07 02/07 02/07 11/97 NA NA	
1EB86 2EB76	1900342 1900343	NON-POTABLE NON-POTABLE IRRIGATION	DESTROYED ACTIVE	NO3 CLO4 VOCS NO3 CLO4 PCE TCE NO3 CLO4 VOCS	8.9 ND NA NA NA 1.3 1.3 51.4 2.0	02/07 11/97 NA NA NA 09/04 09/04 09/98 11/97	8.9 ND NA NA NA 4.1 0.7 26.5 2.0	02/07 11/97 NA NA NA 02/07 02/07 02/07 11/97	
1EB86 2EB76	1900342 1900343	NON-POTABLE NON-POTABLE IRRIGATION	DESTROYED ACTIVE	NO3 CLO4 VOCS NO3 CLO4 PCE TCE NO3 CLO4 VOCS NO3	8.9 ND NA	02/07 11/97 NA NA NA 09/04 09/04 09/98 11/97 NA NA	8.9 ND NA NA NA 4.1 0.7 26.5 2.0 NA NA	02/07 11/97 NA NA NA 02/07 02/07 02/07 11/97 NA NA	
1EB86 2EB76 38EIS	1900342 1900343 1900344	NON-POTABLE IRRIGATION NON-POTABLE	DESTROYED ACTIVE INACTIVE	NO3 CLO4 VOCS NO3 CLO4 PCE TCE NO3 CLO4 VOCS NO3 CLO4	8.9 ND NA NA NA 1.3 51.4 2.0 NA NA NA	02/07 11/97 NA NA NA 09/04 09/04 09/98 11/97 NA NA	8.9 ND NA NA NA 4.1 0.7 26.5 2.0 NA NA	02/07 11/97 NA NA NA 02/07 02/07 02/07 11/97 NA NA	
1EB86 2EB76 38EIS	1900342 1900343 1900344	NON-POTABLE IRRIGATION NON-POTABLE	DESTROYED ACTIVE INACTIVE	NO3 CLO4 VOCS NO3 CLO4 PCE TCE NO3 CLO4 VOCS NO3 CLO4 VOCS NO3 CLO4	8.9 ND NA NA NA 1.3 51.4 2.0 NA NA	02/07 11/97 NA NA NA 09/04 09/98 11/97 NA NA	8.9 ND NA NA NA 4.1 0.7 26.5 2.0 NA NA NA	02/07 11/97 NA NA NA 02/07 02/07 02/07 11/97 NA NA NA	
1EB86 2EB76 38EIS	1900342 1900343 1900344	NON-POTABLE IRRIGATION NON-POTABLE	DESTROYED ACTIVE INACTIVE	NO3 CLO4 VOCS NO3 CLO4 PCE TCE NO3 CLO4 VOCS NO3 CLO4 VOCS NO3 CLO4	8.9 ND NA NA NA 1.3 51.4 2.0 NA NA NA NA	02/07 11/97 NA NA NA 09/04 09/04 09/98 11/97 NA NA NA NA	8.9 ND NA NA NA 4.1 0.7 26.5 2.0 NA NA NA NA NA	02/07 11/97 NA NA NA 02/07 02/07 02/07 11/97 NA NA NA NA	(VOCS AND NO3)
1EB86 2EB76 38EIS 38W	1900342 1900343 1900344 1900344	NON-POTABLE IRRIGATION NON-POTABLE	DESTROYED ACTIVE INACTIVE	NO3 CLO4 VOCS NO3 CLO4 PCE TCE NO3 CLO4 VOCS NO3 CLO4	8.9 ND NA	02/07 11/97 NA NA NA 09/04 09/04 09/98 11/97 NA NA NA NA NA	8.9 ND NA NA NA 4.1 0.7 26.5 2.0 NA NA NA NA NA	02/07 11/97 NA NA NA 02/07 02/07 02/07 11/97 NA NA NA NA NA	(VOCS AND NO3) Î VULNERABLE
1EB86 2EB76 38EIS 38W	1900342 1900343 1900344 1900344	NON-POTABLE IRRIGATION NON-POTABLE	DESTROYED ACTIVE INACTIVE	NO3 CLO4 VOCS NO3 CLO4 PCE TCE NO3 CLO4 VOCS NO3 CLO4 VOCS NO3 CLO4 PCE PCE PCE	8.9 ND NA NA NA 1.3 51.4 2.0 NA NA NA NA	02/07 11/97 NA NA NA 09/04 09/04 09/98 11/97 NA NA NA NA	8.9 ND NA NA NA 4.1 0.7 26.5 2.0 NA NA NA NA NA	02/07 11/97 NA NA NA 02/07 02/07 02/07 11/97 NA NA NA NA	(VOCS AND NO3)

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APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	RECORDATION			CONCENTRA					
WELL NAME	NUMBER	USAGE	STATUS	CONTAMINANT	HISTOR		MOST R	ECENT	REMARKS
			L	OF CONCERN	VALUE	DATE	VALUE	DATE	
GRAV 2	1901679	MUNICIPAL	ACTIVE	per	40.0	07100	7.4	05100	
GRAV Z	1901019	MONICIPAL	ACTIVE	PCE	16.0	07/08	7.1	05/09	VULNERABLE
				CTC	0.9	07/08	0.6	05/09	(CLO4)
				NO3	58.2	04/87	52.0	05/09	
				CLO4	6.9	02/03	5.2	05/09	
WIL 2	1901681	MUNICIPAL	ACTIVE	PCE	22.0	04/00	0.4	00104	
VVIL Z	1301001	MONICIFAL	ACTIVE		23.0	01/88	9,1	03/01	VULNERABLE
				TCE	4.6	03/00	4,6	03/01	(CLO4)
				NO3	86.8	03/00	77.9	02/01	
				CLO4	5.0	07/97	ND	12/99	
WIL 3	1901682	MUNICIPAL	ACTIVE	PCE	9.5	08/94	3.1	05/09	VULNERABLE
	1001002	Morrion Ac	NOTIVE	TCE	1.4	05/09	1.4	05/09	(VOCS AND NO3)
				NO3	66.0	01/83	26.0	05/09	(VOC3 AND NO3)
				CLO4	ND	07/97	ND		
				52.07	110	01131	NU	08/08	
WIL 4	1903086	MUNICIPAL	ACTIVE	PCE	8.1	06/00	2.3	05/09	VULNERABLE
			,,,,,,	TCE	2.1	05/07	1.0	05/09	(VOCS AND NO3)
				NO3	30.0	02/03	21.0	05/09	(*CO3 MIND 1403)
				CLO4	ND	07/97	ND	08/08	
						0,701	140	00/00	
PEEDWAY 60	5 INC.								
NA	1902968	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
TERLING MU	TUAL WATER COM	IPANY							
NEWSO	0000400	MINIODAL	AOTUE	11000					
NEW SO.	8000132	MUNICIPAL	ACTIVE	vocs	ND	06/91	ND	08/08	
				NO3	22.0	08/08	22.0	08/08	
				CLO4	ND	10/97	ND	08/08	
NORTH	1902096	MUNICIPAL	ACTIVE	vocs	ND	00100	NID	na/na	A STATE OF THE STA
NOITH	1002030	MONICIFAL	ACTIVE		ND	06/88	ND	08/08	VULNERABLE
				NO3 CLO4	43.4	02/07	33.0	05/09	(NO3)
				GEO4	ND	09/97	ND	08/08	
SOUTH	1902085	MUNICIPAL	DESTROYED	vocs	ND	01/85	ND	06/91	
	1002000	MOTHOR //L	BLOTTOTES	NO3	16.2	03/91	14.8	08/07	
				CLO4	NA	NA	NA	NA	
				-		1171	1471	1471	
UBURBAN W	ATER SYSTEMS								
101W-1	41901605	MUNICIPAL	DESTROYER	TOF	4 =	07107	NID	00/00	
10100-1	4 180 1000	MUNICIPAL	DESTROYED	TCE	1.5	07/87	ND	08/89	
				NO3	54.2	08/89	54.2	08/89	
				CLO4	NA	NA	NA	NA	
102W-1	1901605	MUNICIDAL	DESTROVED	VOCS	NΛ	NI A	NA	A1.A	
10244-1	1001000	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
102W-2	1901606	MUNICIPAL	DESTROYED	TCE	2.0	01/80	ND	06/85	
	1001000	MOMO!! AL	DEGINOTED	NO3	NA	NA	NA NA	NA	
				CLO4	NA NA	NA NA	NA NA	NA NA	
				GLOM	14/4	MAI	PARI	IVM	
103W-1	1901607	MUNICIPAL	DESTROYED	TCE	2.5	06/80	ND	07/82	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA NA	NA NA	
				0207	117	IIA	1447	130	
	1901608	MUNICIPAL	DESTROYED	PCE	1.4	01/96	1.4	01/96	
105W-1				NO3	46.2	04/95	46.2	04/95	
105W-1				CLO4	NA	NA	NA	NA	
105W-1					-				
105W-1									
105W-1	1901609	MUNICIPAL	DESTROYED	vocs	NA	NA	NA	NA	
	1901609	MUNICIPAL	DESTROYED	VOCS NO3	NA NA	NA NA	NA NA	NA NA	
	1901609	MUNICIPAL	DESTROYED			NA NA NA	NA NA NA	NA NA NA	
	1901609			NO3	NA	NA	NA	NA	
	1901609 1901610		DESTROYED	NO3	NA	NA	NA	NA	
106W-1				NO3 CLO4	NA NA	NA NA	NA NA	NA NA	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)			JG/L)					
WELL NAME	RECORDATION	USAGE	STATUS	CONTAMINANT	HISTORI	C HIGH	MOST	RECENT	REMARKS
	NUMBER			OF CONCERN	VALUE	DATE	VALUE	DATE	
		,	,,	-		-			
440041.4	1001011	MUMUOIDAI	DESTROYER	11000	115	NIA	110	61.4	
112W-1	1901611	MUNICIPAL	DESTROYED	VOCS NO3	NA 99.2	NA 07/69	NA 99.2	NA 07/69	
				CLO4	99.2 NA	NA	99.2 NA	NA	
				CLO4	INA	INA	INA	IVA	
113W-1	1901612	MUNICIPAL	DESTROYED	TCE	0.7	02/80	0.5	03/85	
				NO3	85.0	10/85	67.8	02/88	
				CLO4	NA	NA	NA	NA	
114W-1	1901613	MUNICIPAL	INACTIVE	TCE	2.9	01/80	ND	07/95	VULNERABLE
				PCE	0.5	12/93	ND	07/95	(VOCS AND NO3)
				NO3	46.7	08/91	39.8	04/95	
				CLO4	NA	NA	NA	NA	
117W-1	1901614	MUNICIPAL	DESTROYED	vocs	NA	NA	NA	NA	
717.47	1001014	MONION AL	BEOTTOTEB	NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
120W-1	1901615	MUNICIPAL	DESTROYED	TCE	0.3	07/82	ND	08/96	
	⊛			NO3	66.0	07/88	60.5	08/96	
				CLO4	NA	NA	NA	NA	
1041// 4	8000181	MALANICIDAL	A CTIVE	vocs	ND	10/02	ND	05/00	VIII NEDADI E
121W-1	0000181	MUNICIPAL	ACTIVE	NO3	ND 16.7	10/02 11/08	ND 12,0	05/09 05/09	VULNERABLE (CLO4)
				CLO4	4.7	11/08	3.9	05/09	(0204)
				0201		11700	0.0	00/00	
122W-1	1901616	MUNICIPAL	DESTROYED	TCE	2.6	08/96	2.6	08/96	
				NO3	90.0	05/86	60.7	08/96	
				CLO4	NA	NA	NA	NA	
123W-1	1901617	MUNICIPAL	DESTROYED	TCE	26.8	04/81	ND	08/96	
				PCE	33.0	04/81	ND	08/96	
				NO3 CLO4	47.0 NA	05/76 NA	4.0 NA	08/96 NA	
				OLOG	INA	11/1	IVA	IAU	
124W-1	1901618	MUNICIPAL	DESTROYED	TCE	0.5	06/83	ND	08/89	
				NO3	60.0	09/84	53.6	08/89	
				CLO4	NA	NA	NA	NA	
125W-1	1901619	MUNICIPAL	DESTROYED	VOCS	ND	01/80	ND	09/81	
				NO3	30.0	05/76	21.0	05/79	
				CLO4	NA	NA	NA	NA	
125W-2	8000087	MUNICIPAL	INACTIVE	vocs	ND	03/83	ND	07/95	VULNERABLE
	000000		1111011112	NO3	50.0	08/87	40.6	03/95	(NO3)
				CLO4	NA	NA	NA	NA	,,
126W-1	1901620	MUNICIPAL	DESTROYED	vocs	' NA	NA	NA	NA	
				NO3	18.0	05/75	18.0	05/75	
				CLO4	NA	NA	NA	NA	1
126W-2	8000092	MUNICIPAL	INACTIVE	vocs	ND	03/85	ND	08/00	VULNERABLE
12000 2	0000002	MOTTON AL	IIII	NO3	38.8	07/91	34.9	03/01	(NO3 AND CLO4)
				CLO4	4.8	07/97	ND	01/98	(1100) 1110 020 1/
131W-1	1901621	MUNICIPAL	DESTROYED	TCE	56.0	10/93	56.0	10/93	
				PCE	227.0	04/80	52.0	10/93	
				CTC	2.7	10/93	2.7	10/93	
				1,1-DCE	40.0	10/93	40.0	10/93	
				1,1,1-TCA	5.3	10/93	5.3	10/93	
				NO3 CLO4	62.0 NA	09/81 NA	55,3 NA	10/93 NA	
				020-1	. 1/1	. 17 1		. *** 1	
133W-1	1901622	MUNICIPAL	DESTROYED	TCE	0.5	07/87	ND	08/89	
				CTC	0.5	08/89	0.5	08/89	
				NO3	49.1	08/89	47.8	09/89	
				CLO4	NA	NA	NA	NA	
494141.4	1004000	MINIODA	DESTROYER	TOF	50.0	10/00	E0.0	10/00	
134W-1	1901623	MUNICIPAL	DESTROYED	TCE	56.0	10/93	56.0	10/93	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	RECORDATION	23114(0		CONCENTRA	TION (NO3 II	MG/L, O	THERS IN L	JG/L)	
WELL NAME	NUMBER	USAGE	STATUS	CONTAMINANT	HISTORI	CHIGH	MOSTR	ECENT	REMARKS
	HOMBER		Jj	OF CONCERN	VALUE	DATE	VALUE	DATE	
				DOE	0.4	40/00	ND	40/02	
				PCE 1,1-DCE	0.1	12/80	ND	10/93	
					8.6	10/93	8.6	10/93	
				1,1,1-TCA	13.2	03/83	ND 40.0	10/93	
				NO3	43.0	06/87	40.9	10/93	
				CLO4	NA	NA	NA	NA	
135W-1	1901624	MUNICIPAL	DESTROYED	TCE	8,0	03/85	0.3	05/85	
				NO3	59.0	02/86	47.5	09/86	
				CLO4	NA	NA	NA	NA	
136W-1	1901625	MUNICIPAL	DESTROYED	PCE	335,0	03/80	66.0	10/93	
				TCE	53.0	03/80	9.1	10/93	
			30	CTC	2.4	10/93	2.4	10/93	
				1,1-DCE	15.0	10/93	15.0	10/93	
				NO3	48.0	01/77	37_6	10/93	
				CLO4	NA.		NA	NA	
				CLO4	IVA	NA	INA	INA	
139W-1	1901598	MUNICIPAL	DESTROYED	TCE	34.8	06/81	ND	01/97	
				PCE	5.0	02/88	ND	01/97	
				CTC	8.0	09/80	ND	07/96	
				NO3	99.2	05/94	92.9	07/96	
				CLO4	NA	NA	NA	NA	
139W-2	1901599	MUNICIPAL	INACTIVE	TCE	18.7	09/80	ND	10/08	VULNERABLE
	1001000			PCE	12.1	03/80	ND	10/08	(VOCS)
				CTC	0.8	09/80	ND	10/08	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				CF	0.6	10/08	0.6	10/08	
				NO3	103.5	10/08	103.5	10/08	
				CLO4	34.0	10/08	34.0	10/08	
139W-4	8000069	MUNICIPAL	ACTIVE	TCE MC	4.7 0.7	04/97 09/07	ND ND	02/09	VULNERABLE (VOCS AND NO3)
					46.0			02/09	(VOCS MIND INOS)
				NO3 CLO4	12.0	09/07 12/03	43.7 9.4	02/09 02/09	
139W-5	8000095	MUNICIPAL	INACTIVE	TCE	19.0	08/01	19.0	08/01	
				PCE	10.8	05/99	0.7	08/01	
				CTC	1.0	08/01	1.0	08/01	
				1,2-DCA	1.0	02/00	ND	08/01	
				MC	2.4	09/97	ND	08/01	
				NO3	13.0	06/01	13.0	08/01	
				CLQ4	2.0	09/97	ND	11/99	
139W-6	8000152	MUNICIPAL	INACTIVE	TCE	51.2	02/01	0.4	10/08	VULNERABLE
10011 0	0000102			PCE	2.8	02/01	ND	10/08	(VOCS AND NO3)
				CTC	1.9	02/01	ND	10/08	(1000) (1101)
				1,2-DCA	1.6	02/01	ND	10/08	
				NO3	42.8	10/08	42.8	10/08	
				CLO4	35.4	11/00	12.0	10/08	
4.40184.5	1001000	MINIOTO A	DESTROYER	TOF	1.0	04/00	4.0	04/00	14
140W-1	1901602	MUNICIPAL	DESTROYED	TCE	1.0	01/80	1.0	01/80	1
				NO3 CLO4	86.9 NA	04/73 NA	68.0 NA	05/75 NA	
				0.07	,, .	147	1463	1317	
140W-3	1903067	MUNICIPAL	ACTIVE	TCE	13.6	03/80	ND	12/07	VULNERABLE
				PCE	1.0	06/88	ND	12/07	(VOCS, NO3, AND CLO4)
				CTC	1.0	09/81	ND	12/07	
				NO3	78.0	03/85	9.9	12/08	
				CLO4	16.0	12/05	4.5	12/08	
140W-4	8000093	MUNICIPAL	ACTIVE	TCE	7.0	01/96	1,5	11/06	VULNERABLE
. 1017-1	000000	MONION AL	A STIVE	NO3	36.4	10/03	36.3	12/04	(VOCS AND NO3)
				CLO4	12.6	10/03	11.6	12/04	(4000 VIAD 1400)
140W-5	8000145	MUNICIPAL	ACTIVE	TCE	21.0	02/91	6.2	05/09	VULNERABLE
				PCE	1.0	06/07	ND	05/09	(NO3)
				NO3	30.0	03/09	20.0	05/09	
				CLO4	00.0		20.0	00/00	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	DECORPORATION.			CONCENTRA	TION (NO3 I	N (NO3 IN MG/L, OTHERS IN UG/L)		JG/L)	
WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONTAMINANT	HISTORI		MOSTR		REMARKS
	NOMBER			OF CONCERN	VALUE	DATE	VALUE	DATE	
				THE STATE OF THE S	4				
142W-1	1901597	MUNICIPAL	DESTROYED	vocs	ND	02/80	ND	07/82	
				NO3	74.0	06/81	74.0	06/81	
				CLO4	NA	NΛ	NA	NA	
142W-2	8000183	MUNICIPAL	ACTIVE	vocs	ND	03/04	ND	05/09	
				NO3	9.3	11/04	7.9	05/09	
				CLO4	2.7	03/09	ND	05/09	
147W-1	1001506	MUNICIPAL	DEDTROVER	705					
147 44-1	1901596	MUNICIPAL	DESTROYED	TCE PCE	23.0 1.2	03/85 03/85	23.0	03/85	
				NO3	100.0	03/85	1.2 100.0	03/85 03/85	
				CLO4	NA	NA	NA	NA	
147W-2	1902760	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	54.0	09/74	54.0	09/74	
				CLO4	NA	NA	NA	NA	
147W-3	8000077	MUNICIPAL	ACTIVE	TCE	4.1	01/92	3.5	05/09	VULNERABLE
				PCE	4.4	04/89	2.7	05/09	(VOCS)
				1,1-DCE	8.9	01/89	3.3	05/09	(/
				1,1-DCA	4.8	05/89	ND	05/09	
				NO3	19.8	09/88	8.8	05/09	
				CLO4	2.7	04/09	2.2	05/09	
148W-1	1901604	MUNICIPAL	DESTROYED	TCE	0.8	06/80	ND	04/97	
11000	1001004	MONION AL	DESTROTED	NO3	47.0	02/76	34.8	04/97	
				CLO4	NA	NA	NA	NA	
149W-1	1902119	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
150W-1	1902519	MUNICIPAL	DESTROYED	TCE	6.0	09/81	ND	08/93	
				NO3	53.0	03/86	13,4	08/94	
				CLO4	NA	NA	NA	NA	
15111/ 1	1000510	MUNIODA	DESTROYER	11000					
151W-1	1902518	MUNICIPAL	DESTROYED	VOCS	ND 146.0	01/80	ND	03/98	
				NO3 CLO4	116.0 21.6	03/98 03/98	116.0 21.6	03/98 03/98	
				OLO 1	21,0	00/00	21,0	03/30	
151W-2	8000207	MUNICIPAL	ACTIVE	VOCS	ND	05/09	ND	05/09	
				NO3	4.4	04/09	4.4	05/09	
				CLO4	ND	04/09	ND	05/09	
152W-1	1900337	MUNICIPAL	DESTROYED	TCE	12,8	11/82	8.0	03/85	
	1000001	morrion / L	DECTROTED	PCE	0.8	11/82	0.3	03/85	
				NO3	43.4	05/86	43.4	05/86	
				CLO4	· NA	NA	NA	NA	
450144	1000701								
153W-1	1902761	MUNICIPAL	INACTIVE	VOCS NO3	NA NA	NA	NA	NA	
				CLO4	NA NA	NA NA	NA NA	NA NA	(3)
				0204	1465	110	INA	140	
154W-1	1902762	MUNICIPAL	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3	81.0	05/79	81.0	05/79	
				CLO4	NA	NA	NA	NA	
155W-1	1902819	MUNICIPAL	INACTIVE	PCE	190.0	11/80	90.0	11/98	VULNERABLE
	1002010	MONION AL	WOTIVE	TCE	50.0	07/81	24.0	11/98	(CLO4)
				CTC	19.0	02/82	ND	11/98	(0204)
				1,1-DCE	16.0	03/85	13.0	11/98	
				NO3	60.0	11/80	49.8	11/98	
				CLO4	5.4	11/98	5.4	11/98	
155W-2	1902820	MUNICIPAL	DESTROYED	PCE	190.0	09/93	76.0	11/00	
, .	.002020		PEGINOTED	TCE	39.0	04/80	76.0 22.0	11/98 11/98	
				1,1-DCE	21.0	09/93	11.0	11/98	
				1,1-DCA	3.0	09/93	1.4	11/98	
				C-1,2-DCE	16.0	03/85	1.8	11/98	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	F		1	CONCENTRA	TION (NO3 I	N MG/L, O	THERS IN	JG/L)			
WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONTAMINANT	HISTORI	C HIGH	MOST	RECENT	F	REMARKS	
	NUMBER			OF CONCERN	VALUE	DATE	VALUE	DATE			
				NO	40.0	44/00	40.0	44/00			
				NO3 CLO4	49.0 4.3	11/98 11/98	49.0 ND	11/98 11/98			
				OLO4	4.0	11/00	ND	11/30			
157W-1	1902763	MUNICIPAL	DESTROYED	TCE	12.2	02/80	ND	03/85			
				NO3	58.0	02/86	58.0	02/86			
				CLO4	NA	NA	NA	NA			
201W-1	1901429	MUNICIPAL	DESTROYED	vocs	NA	NA	NA	NA			
20174-1	1001420	MOINION AL	5201110125	NO3	NA	NA	NA	NA			
				CLO4	NA	NA	NA	NA			
004111.0	1001100	A A I I I I I I I I I I I I I I I I I I	DESTROYER	TOF	0.0	04/00	4.7	00/06			
201W-2	1901430	MUNICIPAL	DESTROYED	TCE PCE	6.8 3.9	04/89 09/88	1.7 1.4	08/06 08/06			
				1,1-DCE	3.2	08/89	ND	08/06			
				C-1,2-DCE	6.1	02/91	4.3	08/06			
				NO3	6.8	08/94	6.3	08/06			
				CLO4	ND	08/97	ND	09/03			
604141.0	1004404	MUNICIPAL	DECEDOVED	VOCE	NA	NIA	NIA	NIA			
201W-3	1901431	MUNICIPAL	DESTROYED	VOÇS NO3	NA NA	NA NA	NA NA	NA NA			
				CLO4	NA	NA	NA	NA			
201W-4	1901433	MUNICIPAL	ACTIVE	TCE	6.4	09/89	ND	02/09	VL	JLNERABLE	
				PCE	4.1	09/88	ND	02/09		(VOCS)	
				1,1-DCE	2.0	07/88	ND	02/09			
				C-1,2-DCE	5.2	05/97	ND	02/09			
				BF DBCM	4.7 1.9	11/07 11/07	2.2 1.0	02/09 02/09			
				NO3	12.0	08/08	12.0	08/08			
				CLO4	ND	06/97	ND	08/08			
201W-5	1901432	MUNICIPAL	ACTIVE	TCE	6.4	09/89	ND	03/08	VU	JLNERABLE	
				PCE	3.8	09/89	ND	03/08		(VOCS)	
				1,1-DCE C-1,2-DCE	2.9 4.9	09/88 08/88	ND ND	03/08 03/08			
				BDCM	1.7	11/07	ND	03/08			
				BF	6.4	11/07	0.6	03/08			
				DBCM	4.6	11/07	ND	03/08			
				NO3	12.0	08/94	12.0	08/07			
				CLO4	ND	06/97	ND	06/03			
201W-6	1901434	MUNICIPAL	DESTROYED	TCE	3.9	05/88	ND	09/05	VI	JLNERABLE	
20100-0	1001404	MONION FIL	DED!!!O!ED	PCE	3.3	05/88	ND	09/05		(VOCS)	
				1,1-DCE	3.2	09/88	ND	09/05			
				C-1,2-DCE	8.7	05/88	ND	09/05			
				NO3	20.0	06/85	7.7	05/05			
				CLO4	ND	06/97	ND	06/03			
201W-7	8000195	MUNICIPAL	ACTIVE	PCE	0.6	08/08	ND	05/09			
201441	0000100	MOING! TIE		C-1,2-DCE	0.9	08/08	ND	05/09			(4)
				NO3	8,6	08/08	8.6	08/08			¥:
				CLO4	ND	08/08	ND	08/08			
00.1111.0	2002455	MUNICIPAL	ACTIVE	705	0.5	05107	ND	05/00			
201W-8	8000198	MUNICIPAL	ACTIVE	TCE C-1,2-DCE	0.5 1.1	05/07 05/07	ND ND	05/09 05/09			
				EBZ	0.8	07/06	ND	05/09			
				NO3	7.3	09/06	3.6	11/08			
				CLO4	2.1	07/06	ND	08/08			
	200	LII IADOURA	AOT!! /-	11000	ND.	44100	NID	05/00			
201W-9	8000208	MUNICIPAL	ACTIVE	VOCS NO3	ND 12.0	11/08 03/08	ND 12.0	05/09 02/09			
				CLO4	ND	03/08	ND	08/08			
				2201	.10	53,00		- 37 00			
201W-10	NA	MUNICIPAL	ACTIVE	TCE	1.4	09/07	1.0	05/09			
				PCE	1.3	09/07	8.0	05/09			
				C-1,2-DCE	3.0	09/07	1.7	05/09			
				NO3 CLO4	3.8 ND	09/07 09/07	2.8 ND	05/09 05/09			
				GLU4	ND	03101	ND	03/03			

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

14/51 1 11 11 11	RECORDATION			CONCENTRA				THE RESERVE THE PARTY OF THE PA	
WELL NAME	NUMBER	USAGE	STATUS	CONTAMINANT	HISTORI			RECENT	REMARKS
				OF CONCERN	VALUE	DATE	VALUE	DATE	
202W-1	1901627	MUNICIPAL	DESTROYED	TCE	4.3	09/81	ND	01/89	
				PCE	15.0	10/88	12.1	01/89	
				NO3	24.0	07/87	23,0	10/88	
				CLO4	NA	NA	NA	NA	
SUNNY SLOPE	WATER COMPANY	Y							
08	1900026	MUNICIPAL	ACTIVE	vocs	ND	01/87	ND	09/08	VULNERABLE
				NO3	24.0	09/94	18.0	06/09	(NO3)
				CLO4	ND	07/97	ND	09/08	
09	1902792	MUNICIPAL	ACTIVE	vocs	ND	01/85	ND	12/08	VULNERABLE
				NO3	36.0	06/03	13.0	06/09	(NO3)
				CLO4	ND	07/97	ND	09/08	()
10	8000048	MUNICIPAL	INACTIVE	vocs	ND	01/85	ND	08/96	
				NO3	63.6	12/94	50.9	08/96	
				CLO4	NA	NA	NA	NA	
13	8000157	MUNICIPAL	ACTIVE	vocs	ND	00100	ND	00/00	
	0000131	WONCIFAL	ACTIVE	NO3	ND 6.5	08/96 09/08	ND 6.5	09/08 09/08	
				CLO4	ND	07/97	ND	09/08	
TAVI OD UEDO	CARDEN							00,00	
TAYLOR HERB									
NA	1902964	IRRIGATION	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
TEXACO INC.									
14	1900001	INDUSTRIAL	DESTROYED	PCE	40.0	07/01	2.8	09/03	
				TCE	5.0	05/85	ND	09/03	
				1,2-DCA	0.6	01/96	ND	09/03	
				MC	4.6	04/87	ND	09/03	
				NO3 CLO4	33.0 ND	07/01 09/97	6.4 ND	09/03 09/97	
THOMPSON, EA	ARI W.			5201	110	00/07	140	09/31	
01		DOMESTIC							
UT	1900680	DOMESTIC	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3 CLO4	NA NA	NA NA	NA NA	NA NA	
TOMOVICH (NIC	CK) & SON	ē						****	
	·				ä				
NA	8000037	DOMESTIC	DESTROYED	VOCS	NA	NA	NA	NA	
				NO3 CLO4	, NA NA	NA NA	NA NA	NA NA	
YLER NURSER	₹Y								,
									12
NA	8000049	IRRIGATION	ACTIVE	TCE	12.9	12/99	1.2	09/04	VULNERABLE
				1,1-DCE	44.6 0.6	12/99	1,2	09/04	(VOCS AND NO3)
				1,1-DCA	0.9	09/02 09/02	ND ND	09/04 09/04	
				C-1,2-DCE	8.7	09/02	ND	09/04	
				NO3	31.0	09/02	ND	09/04	
				CLO4	NA	NA	NA	NA	
JNITED CONCR	RETE PIPE CORPOR	RATION							
NA	8000067	INDUSTRIAL	INACTIVE	vocs	ND	08/89	ND	10/08	
				NO3	4.3	08/89	4.3	08/89	
				CLO4	NA	NA	NA	NA	
INITED ROCK F	PRODUCTS CORPO	RATION							
IRW-1	1900106	INDUSTRIAL	ACTIVE	Vocs	ND	08/89	ND	10/08	
				. 5 50	110	00/03	NO	10/00	

APPENDIX C
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AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

RECORDATION				CONCENTRA	TION (NO3	UG/L)			
WELL NAME	NUMBER	USAGE	STATUS	CONTAMINANT	HISTORIC HIGH MOST RECENT				REMARKS
				OF CONCERN	VALUE	DATE	VALUE	DATE	
				NO3	6.4	07/96	2.7	10/08	
				CLO4	ND	02/98	ND	02/98	
IRW-2	1903062	INDUSTRIAL	ACTIVE	vocs	ND	07/00	AUD	44100	
	100000	HOOOTKIAL	AUTIVE	NO3	4.5	07/96 10/04	ND 2.6	11/05 11/05	
				CLO4	ND	02/98	ND	02/98	
SIERRA	1902532	INDUSTRIAL	INACTIVE	vocs	NA	NA	NIA	NIA	
			III/OTIVE	NO3	NA	NA	NA NA	NA NA	
				CLO4	NA	NA	NA	NA	
ALENCIA HEI	GHTS WATER COM	IPANY							
01	8000051	MUNICIPAL	ACTIVE	MC	0.7	00100	410		
	***************************************	MOTHO!! AL	AOTIVE	NO3	0.7 46.5	06/89 04/99	ND 32.6	07/08 07/07	VULNERABLE (NO3 AND CLO4)
				CLO4	8.5	08/00	ND	05/09	(1403 AND CEO4)
02	8000052	MUNICIPAL	ACTIVE	TCE	0.0	04/00	A I I	.7.00	
	000002	MOMORAL	ACTIVE	NO3	0.2 53.7	01/80 07/97	ND 27.0	07/08 07/06	VULNERABLE (NO3 AND CLO4)
				CLO4	8.0	10/98	4.2	07/08	(NOS AND CLO4)
03A	8000055	MUNICIPAL	DESTROYED	VOCS	ND	00105	NE		
00/1	5000035	WONICIPAL	DESTRUTED	NO3	34.8	03/85 09/89	ND 12 ₋ 1	03/92 08/92	
				CLO4	NA	NA	NA	NA	
04	8000054	MUNICIPAL	INACTIVE	BCE.	4.0	00/00	NE		
V-1	0000004	MONICIPAL	INACTIVE	PCE NO3	1.0 90.0	09/99 11/97	ND 78.0	09/01 03/02	
				CLO4	32.6	11/00	28.0	03/02	
05	8000120	MUNICIPAL	ACTIVE	vocs	ND	00.00	ME		A # # A # # * * * * * * * * * * * * * *
***	5555125	MOTION AL	ACTIVE	NO3	34.0	06/90 12/99	ND 24.5	07/08 07/07	VULNERABLE (NO3 AND CLO4)
				CLO4	7.2	11/00	ND	05/09	(1403 AIND CLO4)
06	8000180	MUNICIPAL	ACTIVE	CF	12.0	10/00	MB	07/00	Managera
	0000100	MUNICIPAL	AUTIVE	NO3	13.0 49.3	12/02 06/04	ND 42.0	07/08 10/08	VULNERABLE (NO3)
				CLO4	8,9	01/07	6.5	05/09	(1400)
07	NA	MUNICIPAL	INACTIVE	vocs	ND	05/02	ND	05/00	
		orrion nc	INCOLLAR	NO3	20.0	05/08 05/08	ND 20.0	05/08 05/08	
				CLO4	ND	05/08	ND	05/08	
LLEY COUNT	TY WATER DISTRIC	т							
ARROW	1900034	MUNICIPAL	INACTIVE	TCE	700.0	07/92	600.0	10/00	MANERAN
		STOTAGE FILE	HACITYE	PCE	980.0	07/82 12/96	600.0 980.0	12/96 12/96	VULNERABLE (NO3) (3)
				1,1-DCE	64.0	 12/96 	64.0	12/96	(100)(0)
				C-1,2-DCE CTC	59.0	12/96	59.0	12/96	
				1,2-DCA	14.5 9.0	09/92 02/92	8.0 7.3	12/96 12/96	
				1,1,1-TCA	45.0	12/96	45.0	12/96	3.1
				1,1-DCA	2.9	02/95	2.7	12/96	1
				NO3 CLO4	26.4 NA	08/96 NA	26.4 NA	08/96 NA	
DALTON	400000						INM	IAW	
B DALTON	1900035	MUNICIPAL	INACTIVE	TCE	137.0	04/85	7.5	09/07	
				PCE 1,1-DCA	8.0 0.9	04/85 05/96	1.0 ND	09/07 09/07	
				C-1,2-DCE	2.0	11/95	0.3	09/07	
				CTC	9.9	04/85	0.5	09/07	
				1,2-DCA NO3	11.0 63.0	12/98 09/07	1.6 63.0	09/07	
				CLO4	99.1	12/98	20.0	09/07 09/07	
E NIXON	1900032	MUNICIDAL	A CT1\ /C						
(E JOAN)	1300032	MUNICIPAL	ACTIVE	TCE PCE	7.0 11.0	11/08 10/04	1.9 5.8	06/09 06/09	(1)
				1,1-DCE	1.3	10/04	ND	06/09	
				C-1,2-DCE	1.7	10/04	0.5	06/09	
				NO3 CLO4	13,6 ND	02/05	5.5	08/08	
				OLO4	ND	05/97	ND	08/08	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

MELINAME RECORDATION NUMBER NUMB) (1)
E MAINE 1900027 MUNICIPAL ACTIVE TCE 11.0 10.0 10.004 4.8 06.00 (VOCS AND CLO- 11.1-DCE 10.1 0.291 ND 06.009 (VOCS AND CLO- 11.1-TCA 9.1 0.291 ND 06.009 (VOCS AND CLO- 11.1-TCA 9.1 0.201 ND 06.009 (VOCS AND CLO- 11.1-TCA 9.1 1.004 ND 06.009 (VOCS AND CLO- 11.1-TCA 10.0 06.003 ND 06.009 (VOCS AND CLO- 11.1-TCA 10.0 06.003 ND 06.009 (VOCS AND CLO- 11.1-TCA 10.0 06.003 ND 06.009 (NO3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (1)
E MAINE 1900027 MUNICIPAL ACTIVE TCE 10.1 10.04 2.2 08/09 (VOCS AND CLO- 1.1-DOE 10.1 02/91 ND 06/09 1.2-DCA 1.4 10/04 ND 06/09 1.1-1-TCA 9.1 02/91 ND 06/09 1.1-1-TCA 9.1 02/91 ND 06/09 1.1-1-TCA 9.1 02/91 ND 06/09 CF 1.1 1000 MND 06/09 CF 1.1 1000 MND 06/09 CC 1.1.2-DCE 13.0 06/03 ND 06/09 CC 1.1.3 1000 MND 06/09 CLO4 7.8 10/04 1.6 0300 CC 1.1-DCE 110.0 11/96 300.0 04/09 (NO3) (3) CC 1.1-DCE 110.0 11/96 300.0 04/09 (NO3) (3) CC 1.1-DCE 110.0 14/96 10.0 04/09 CC 1.2-DCE 90.0 11/96 10.0 04/09 CC 1.2-DCE 90.0 11/96 10.0 04/09 CC 1.2-DCE 90.0 11/96 10.0 04/09 CC 1.2-DCE 11.0 04/98 ND 04/09 CC 1.1-DCA 12.5 01/92 ND 04/09 CC 1.1-DCA 12.5 01/92 ND 04/09 CC 1.1-1-DCA 12.5 01/92 ND 04/09 CC 1.1-1-DCA 12.5 01/92 ND 04/09 CC 1.1-1-DCA 12.5 01/92 ND 04/09 NC 24.4 05/87 ND 04/09 CC 1.1-CC 17.8 01/92 3.2 01/08 NC 24.4 05/87 ND 04/09 CC 1.1-DCB 0.6 06/04 ND 12/08 NO3 43.0 05/05 34.0 06/09 CLO4 94.0 04/98 13.0 04/09 MC 24.4 05/87 ND 04/09 CC 22.0 04/84 ND 12/08 NO3 43.0 05/05 34.0 06/09 CLO4 94.0 04/98 13.0 04/09 MORADA 1900029 MUNICIPAL INACTIVE TCE 770.0 03/60 0.7 10/08 VULNERABLE CC 29.0 04/84 ND 10/08 CC 2-12-DCE 8.1 06/95 ND 10/0) (1)
PCE) (1)
PCE) (1)
1,1-DCE	
12-DCA	
LANTE (SA1-3) 8000060 MUNICIPAL ACTIVE TCE 1315.0 06/03 ND 06/09 NO 06/09	
C-1,2-DCE	
CF 1,1 10/04 ND 06/09 NO3 20,2 05/04 15.0 06/09 O6/09	
LANTE	
CLO4 7.8 10/04 1.6 03/09	
LANTE (SA1-3) Continue	
(SA1-3) PCE 120.0 11/96 300.0 04/09 (NO3) (3) 1,1-DCE 110.0 11/96 16.0 04/09 (NO3) (3) 1,1-DCE 110.0 04/85 ND 04/09 04/09 (NO3) (3) 1,1-DCA 18.0 08/04 ND 04/09	
1,1-DCE	
1,1-DCE	
T-1,2-DCE	
1,1-DCA	
1,2-DCA	
CTC	
1,1,1-TCA	
MC	
CF 3.2 05/06 1.6 04/09	
MORADA 1900029 MUNICIPAL INACTIVE TCE T70,0 03/80 ND 12/08 ND 12/08 NO3 43.0 05/05 34.0 06/09 NO3 MORADA NO3 MORADA 1900029 MUNICIPAL INACTIVE TCE T70,0 03/80 0.7 10/08 VULNERABLE ND 10/08 (VOCS) ND 10/08 ND	
P-DCB 3.1 08/04 ND 12/08 NO3 43.0 05/05 34.0 06/09 CLO4 94.0 04/98 13.0 04/09 MORADA 1900029 MUNICIPAL INACTIVE TCE 770.0 03/80 0.7 10/08 VULNERABLE PCE 100.0 02/85 1.8 10/08 (VOCS) CTC 29.0 04/84 ND 10/08 1,1-DCE 2.5 04/88 ND 10/08 1,1-DCA 8.5 02/85 ND 10/08 1,1-DCA 8.5 02/85 ND 10/08 CF 1.7 10/08 1.7 10/08 NO3 110.8 11/90 67.5 10/08 CLO4 21.0 02/04 9.2 10/08 PADDY LN 1900031 MUNICIPAL INACTIVE TCE 166.0 04/94 25.0 10/08 CF 4.4 02/04 2.0 10/08 CF 4.4 02/04 2.0 10/08 CTC 15.0 12/87 0.7 10/08	
MORADA 1900029 MUNICIPAL INACTIVE TCE 770,0 03/80 0,7 10/08 VULNERABLE PCE 100,0 02/85 1.8 10/08 (VOCS) T.1-DCE 2.5 04/88 ND 10/08 ND 10/08 1,2-DCA 0.7 04/88 ND 10/08 1,2-DCA 0.7 04/88 ND 10/08 C-1,2-DCE 8.1 08/95 ND 10/08 C-1,2-DCE 8.1 08/95 ND 10/08 C-1,2-DCE 8.1 08/95 ND 10/08 NO3 110.8 11/90 67.5 10/08 CLO4 21.0 02/04 9.2 10/08 PADDY LN 1900031 MUNICIPAL INACTIVE TCE 166.0 04/94 25.0 10/08 C-1 (PCE 42.0 11/93 2.8 10/08 C-1 (PCE 44.4 02/04 2.0 10/	
MORADA 1900029 MUNICIPAL INACTIVE TCE 770.0 03/80 0.7 10/08 VULNERABLE PCE 100.0 02/85 1.8 10/08 (VOCS) TCC 29.0 04/84 ND 10/08	
MORADA 1900029 MUNICIPAL INACTIVE TCE 770.0 03/80 0.7 10/08 VULNERABLE PCE 100.0 02/85 1.8 10/08 (VOCS) 1,1-DCE 2.5 04/84 ND 10/08 1,1-DCA 8.5 02/85 ND 10/08 ND 10/08 1,2-DCA 0.7 04/88 ND 10/08 ND 10/	
PGE 100,0 02/85 1.8 10/08 (VOCS) CTC 29,0 04/84 ND 10/08 1,1-DCE 2.5 04/88 ND 10/08 1,1-DCA 8.5 02/85 ND 10/08 1,2-DCA 0.7 04/88 ND 10/08 C-1,2-DCE 8.1 08/95 ND 10/08 CF 1.7 10/08 1.7 10/08 NO3 110.8 11/90 67.5 10/08 CLO4 21.0 02/04 9.2 10/08 PADDY LN 1900031 MUNICIPAL INACTIVE TCE 166.0 04/94 25.0 10/08 CF 4.4 02/04 2.0 10/08 CF 4.4 02/04 2.0 10/08 CTC 15.0 12/87 0.7 10/08	
PCE 100,0 02/85 1.8 10/08 (VOCS) CTC 29,0 04/84 ND 10/08 1,1-DCE 2.5 04/88 ND 10/08 1,1-DCA 8.5 02/85 ND 10/08 1,2-DCA 0.7 04/88 ND 10/08 C-1,2-DCE 8.1 08/95 ND 10/08 CF 1.7 10/08 1.7 10/08 NO3 110.8 11/90 67.5 10/08 CLO4 21.0 02/04 9.2 10/08 PADDY LN 1900031 MUNICIPAL INACTIVE TCE 166.0 04/94 25.0 10/08 CF 4.4 02/04 2.0 10/08 CF 4.4 02/04 2.0 10/08 CTC 15.0 12/87 0.7 10/08	
PADDY LN 1900031 MUNICIPAL INACTIVE TCE 166.0 04/94 25.0 10/08 PADDY LN 1900031 MUNICIPAL INACTIVE TCE 42.0 11/93 2.8 10/08 CF 4.4 02/04 2.0 10/08 CTC 15.0 12/87 0.7 10/08	
PADDY LN 1900031 MUNICIPAL INACTIVE TCE 166.0 04/94 25.0 10/08 PCF 4.4 02/04 2.0 10/08 CF 4.4 02/04 2.0 10/08 CF 4.4 02/04 2.0 10/08 CTC 15.0 12/87 0.7 10/08	
PADDY LN 1900031 MUNICIPAL INACTIVE TCE 166.0 04/94 25.0 10/08 PCF 4.4 02/04 2.0 10/08 CF 4.4 02/04 2.0 10/08 CTC 15.0 12/87 0.7 10/08	
PADDY LN 1900031 MUNICIPAL INACTIVE TCE 166.0 04/94 25.0 10/08 PCF 4.4 02/04 2.0 10/08 CF 4.4 02/04 2.0 10/08 CTC 15.0 12/87 0.7 10/08	
PADDY LN 1900031 MUNICIPAL INACTIVE TCE 166.0 04/94 25.0 10/08 PCE 42.0 11/93 2.8 10/08 CTC 15.0 12/87 0.7 10/08	
PADDY LN 1900031 MUNICIPAL INACTIVE TCE 166.0 04/94 25.0 10/08 PCE 42.0 11/93 2.8 10/08 CTC 15.0 12/87 0.7 10/08	
PADDY LN 1900031 MUNICIPAL INACTIVE TCE 166.0 04/94 25.0 10/08 PCE 42.0 11/93 2.8 10/08 CF 4.4 02/04 2.0 10/08 CTC 15.0 12/87 0.7 10/08	
PADDY LN 1900031 MUNICIPAL INACTIVE TCE 166.0 04/94 25.0 10/08 PCE 42.0 11/93 2.8 10/08 CF 4.4 02/04 2.0 10/08 CTC 15.0 12/87 0.7 10/08	
PCE 42.0 11/93 2.8 10/08 CF 4.4 02/04 2.0 10/08 CTC 15.0 12/87 0.7 10/08	
PCE 42.0 11/93 2.8 10/08 CF 4.4 02/04 2.0 10/08 CTC 15.0 12/87 0.7 10/08	
CF 4.4 02/04 2.0 10/08 CTC 15.0 12/87 0.7 10/08	
CTC 15.0 12/87 0.7 10/08	
C-1,2-DCE 23.8 11/93 1.9 10/08	
1,2-DCA 6.6 02/04 2.8 10/08	
NO3 49.5, 10/08 49.5 10/08	
CLO4 154.0 02/98 60.0 10/08	
PALM 8000039 MUNICIPAL INACTIVE CTC 48.0 07/82 0.8 02/04 V/U NERABLE	
VOLINERABLE	
TCE 56.0 02/04 56,0 02/04 (CLO4) PCE 51.0 02/04 51.0 02/04	N.
	Y.
CF 0.7 02/04 0.7 02/04 C-1,2-DCE 7.1 02/04 7.1 02/04	
1,1,1-TCA 1.8 02/04 1.8 02/04	
NO3 11.0 12/94 10.0 02/04	
CLO4 5.6 02/04 5.6 02/04	
W NIXON 1902356 MUNICIPAL ACTIVE TCE 4.0 11/04 ND 06/09 VULNERABLE	
(W JOAN) PCE 8.0 11/04 ND 06/09 (VOCS) (1)	
MC 1.6 05/89 ND 08/08	
NO3 8.5 02/05 3.8 08/08	
CLO4 ND 05/97 ND 08/08	
W MAINE 1900028 MUNICIPAL ACTIVE TCE 47.3 02/91 3.6 06/09 VIII NERABLE	
VOLINE AALE	
(+3+1/1/)	
1,1-DCE 14.2 02/91 0,6 06/09 1,2-DCA 0.8 08/04 ND 06/09	
1,1,1-TCA 10.6 02/91 ND 06/09	
C-1,2-DCE 9.0 02/03 0.7 06/09	
0.000 0.000 0.000	

APPENDIX C

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

		,							
	RECORDATION	No. o-	QTATHE	A STATE OF THE PARTY OF THE PAR	ATION (NO3 IN MG/L, OTHERS IN UG/L) HISTORIC HIGH MOST RECENT				REMARKS
WELL NAME	NUMBER	USAGE	STATUS	OF CONCERN	VALUE	DATE	VALUE	DATE	KENAKKO
(L				No.	00.7	05300	0.2	ORIDA	
				NO3 CLO4	20.8 6.3	05/90 10/04	9.8 1.3	06/09 03/09	
				0104	0.0	1070-1	7.0	00.00	
SA1-1	8000185	MUNICIPAL	ACTIVE	TCE	34.0	07/05	4.1	01/09	(1)
				PCE	47.0	04/07	6,5	01/09	
				1,1-DCA 1,1-DCE	11.0 110.0	07/05 07/05	0.5 7.9	01/09 01/09	
				1,2-DCA	1.0	07/05	ND	01/09	
				C-1,2-DCE	4.1	07/05	0.6	01/09	
				1,1,1-TCA	6.0	05/06	ND	01/09	
				CF	1.6	12/04	0.5	01/09	
				MC	2,2	04/07	ND 78.0	01/09	
				NO3 CLO4	87.0 17.0	01/05 01/05	78.0 10.0	02/09 02/09	
				OLO4					
SA1-2	8000186	MUNICIPAL	ACTIVE	TCE	25.0	04/06	4.3	04/09	(1)
				PCE	37.0 8.7	05/06 07/05	9.0 ND	04/09	
				1,1-DCA 1,1-DCE	62.0	04/06	3.6	04/09	
				1,2-DCA	1.0	07/05	ND	04/09	
				C-1,2-DCE	6.2	07/05	0.4	04/09	
				1,1,1-TCA	2.2	05/06	ND	04/09	
				CF	1.3	05/06	0.4	04/09	
				NO3 CLO4	72,0 15.0	03/05 03/05	53.0 11.0	06/09 04/09	
				CLO4	15.0	03/05	11.0	04/03	
VALLEY VIEW	MUTUAL WATER	COMPANY							
01	1900363	MUNICIPAL	ACTIVE	vocs	ND	06/89	ND	09/08	
01	1000000	1110111011712		NO3	5.7	11/95	5.1	01/09	
				CLO4	ND	08/97	ND	09/08	
02	1900364	MUNICIPAL	ACTIVE	vocs	ND	06/88	ND	09/08	
-				NO3	6.9	09/94	4.4	09/08	
				CLO4	ND	08/97	ND	09/08	
03	1900365	MUNICIPAL	INACTIVE	TCE	1.3	01/80	ND	03/98	VULNERABLE
00	1000000	MOTHOW //E		NO3	26.9	03/98	26.9	03/98	(NO3)
				CLO4	18.6	03/98	18.6	03/98	
VIA TRUST									
	4002042	NON-POTABLE	DESTROVED	vocs	NA	NA	NA	NA	
01	1903012	NON-POTABLE	DESTROTED	NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
VIII CAN MAT	ERIALS COMPANY	CALMAT COME	PANYI		*				
				TOP	, 22.0	4470.6	0.0	10/00	VULNERABLE
DUR E	1902920	INDUSTRIAL	ACTIVE	TCE PCE	32.0 27.0	11/04 11/04	2.3 3.8	10/08 10/08	(VOCS)
				1,1-DCE	5.3	11/04	ND	10/08	(1000)
				C-1,2-DCE	2.8	11/04	ND	10/08	
				1,1,1-TCA	0.7	11/04	ND	10/08	
				CF	0.7	11/04	ND	10/08	
				MC	1:1	10/06	ND	10/08	
				NO3 CLO4	16.2 ND	10/04 04/98	9.0 ND	10/08 10/08	
				OLO4	ND	04/50			
DUR W	8000063	INDUSTRIAL	ACTIVE	PCE	0.8	02/07	ND	10/08	VULNERABLE
				NO3	16.0	07/01	12.0	10/08	(CLO4)
				CLO4	4.0	05/98	4.0	05/98	
REL 1	1903088	INDUSTRIAL	ACTIVE	vocs	ND	05/94	ND	10/08	
				NO3	6.5	09/02	6.4	10/08	
				CLO4	ND	05/98	ND	05/98	
WADE, RICHA	ARD I.								
NA	8000056	DOMESTIC	INACTIVE	vocs	NA	NA	NA	NA	
INA	500000	DOMEGIA							

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

WELL NAME	RECORDATION	USAGE			ION (NO3 IN MG/L, OTHERS IN HISTORIC HIGH MOST		4		
WELL NAME	NUMBER	USAGE	STATUS	CONTAMINANT			MOST		REMARKS
			l	OF CONCERN	VALUE	DATE	VALUE	DATE	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
IEST COVINA	VENTURE LIMITE	ь							
EST COVINA	VENTORE LIMITE	U							
NA	1902970	NA	INACTIVE	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
VILMOTT, ERN	ΛΑ M.								
01	8000006	DOMESTIC	ACTIVE	Vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
OODLAND, R	ICHARD								
01	1902949	NON DOTAR: -	INIA CTIVIT	1/000					
01	1202849	NON-POTABLE	INACTIVE	VOCS NO3	NA NA	NA NA	NA NA	NA	
				CLO4	NA NA	NA NA	NA NA	NA NA	
5848				,		11/3	17/3	1373	
02	1902950	NON-POTABLE	INACTIVE	VOCS	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
OSE HILLS M	EMORIAL PARK (V	VORKMAN MILL	INVESTMENT O	OMPANY)					
04	1902790								
04	1902/90	IRRIGATION	ACTIVE	PCE TCE	5.3	08/87	ND	10/08	VULNERABLE
				1,1-DCE	11,0 14.0	04/85 04/85	ND ND	10/08 10/08	(VOCS AND NO3)
				1,1,1-TCA	3.3	04/85	ND	10/08	
				NO3	52.8	02/07	39.0	10/08	
				CLO4	ND	06/98	ND	06/98	
01	1900132	IRRIGATION	INACTIVE	vocs	NA	NA	NA	NA	
				NO3	NA	NA	NA	NA	
				CLO4	NA	NA	NA	NA	
02	1900095	IRRIGATION	ACTIVE	PCE	8.6	04/85	ND	10/04	MUNEDADIE
			NOTIVE	TCE	11.0	04/85	ND ND	10/04 10/04	VULNERABLE (VOCS)
				NO3	91.4	10/04	91.4	10/04	(1003)
				CLO4	ND	06/98	ND	06/98	
01	1900094	IRRIGATION	ACTIVE	TCE	6.1	04/07	NID	10/00	
	100000,	INTIGATION	ACTIVE	PCE	6,4	04/87 11/87	ND 1.0	10/08 10/08	VULNERABLE (VOCS AND NO3)
				1,2-DCA	0.8	01/96	ND	10/08	(4009 WAD 1409)
				1,1-DCE	1.0	04/87	ND	10/08	
				C-1,2-DCE	12.6	05/85	ND	10/08	
				NO3 CLO4	45.2 ND	02/98 02/98	26.0 ND	10/08	
				GLOT	nD.	02130	ND	02/98	
03	1900052	IRRIGATION	ACTIVE	TCE	21.0	05/85	ND	09/05	VULNERABLE
				PCE	7.4	05/85	ND	09/05	(VOCS AND NO3)
				1,1-DCE C-1,2-DCE	2.7 28.0	05/85	ND	09/05	
				1,1-DCA	1.1	05/85 05/85	ND ND	09/05 09/05	
				1,1,1-TCA	7.5	05/85	ND	09/05	
				NO3	46.4	08/00	25.7	09/05	
				CLO4	ND	02/98	ND	02/98	
HTTIER, CITY	OF								
09	1901745	MUNICIPAL	DESTROYED	TCE	1.4	04/85	ND	08/89	
				PCE NO2	1.9	10/88	0.6	08/89	
				NO3 CLO4	8.8 NA	08/89 NA	8.8 NA	08/89	
				0.01	IAU	IVA	INA	NA	
10	1901746	MUNICIPAL	DESTROYED	vocs	NA	NA	NA	NA	
				NO3	6.6	01/74	6.6	01/74	

APPENDIX C
HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS
AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	DECODE ASSOCI			CONCENTRATION (NO3 IN MG/L, OTHERS IN UG/L)						
WELL NAME	RECORDATION NUMBER	USAGE	STATUS	CONTAMINANT	HISTOR	C HIGH	MOST	RECENT	REMARKS	
	NOWBER			OF CONCERN	VALUE	DATE	VALUE	DATE		
				CLO4	NA	NA	NA	NA		
11	1901747	MUNICIPAL	DESTROYED	vocs	ND	06/87	ND	11/90		
				NO3	10.1	01/90	10.1	01/90		
				CLO4	NA	NA	NA	NA		
12	1901748	MUNICIPAL	DESTROYED	TCE	1.5	07/88	1.5	07/88		
12	1501740	MOMO!! AL	DESTROTED	PCE	0.7	07/88	0.7	07/88		
				NO3	10.0	12/84	8.5	12/85		
				CLO4	NA	NA	NA	NA		
			4.070.45	DOE	4.0	44/07	NID	06100	VULNERABLE	
13	1901749	MUNICIPAL	ACTIVE	PCE TCE	4.9 1.1	11/87 06/87	ND ND	06/09 06/09	(VOCS) (3)	
				MTBE	6.4	03/02	ND	06/09	(1227,(3)	
				NO3	13.1	03/05	6.4	03/09		
				CLO4	ND	08/97	ND	09/08		
			4.070/5	205	0.4	00/00	4.4	00/00	VULNERABLE	
15	8000071	MUNICIPAL	ACTIVE	PCE TCE	9.4 0.7	03/03 09/04	1.1 ND	06/09 06/09	(VOCS) (3)	
				C-1,2-DCE	2.5	12/93	ND	06/09	(1000)	
				NO3	13.0	08/89	6.3	09/08		
				CLO4	ND	08/97	ND	09/08		
				505	0.4	40100	4.7	06/09	VINNEBARIE	
16	8000110	MUNICIPAL	ACTIVE	PCE TCE	3.4 1.4	12/02 01/97	1.7 ND	06/09	VULNERABLE (VOCS) (3)	
				C-1,2-DCE	2.5	10/96	ND	06/09	(0003)(0)	
				NO3	9.6	09/89	7.0	03/09		
				CLO4	ND	08/97	ND	09/08		
47	0000435	MUNICIPAL	ACTIVE	PCE	12:0	12/02	3.3	09/08	VULNERABLE	
17	8000135	WUNICIPAL	ACTIVE	TCE	2.2	05/92	0.5	09/08	(VOCS) (3)	
				C-1,2-DCE	1.2	04/95	ND	09/08	, ,,,,	
				NO3	13.0	03/03	9.1	03/08		
				CLO4	ND	08/97	ND	09/08		
18	8000136	MUNICIPAL	ACTIVE	PCE	9.2	09/08	8.2	06/09		
10	0000130	WIGHTOIL	AOTIVE	TCE	2.4	11/95	1.6	06/09		
				C-1,2-DCE	0.7	10/96	ND	06/09		
				NO3	14.7	03/05	14.0	03/09		
				CLO4	ND	08/97	ND	09/08		
EW4-5	8000200	MUNICIPAL	ACTIVE	PCE	29.0	10/06	15.8	03/09	(1)	
2,,,,	0000200			TCE	4.1	10/06	1.7	03/09		
				NO3	16.0	12/05	13.0	12/08		
				CLO4	ND	12/05	ND	12/08		
EW4-6	8000201	MUNICIPAL	ACTIVE	PCE	8.1	06/06	0.3	03/09	VULNERABLE	
L444-0	8000201	WONION AL	ACTIVE	TCE	1.1	10/06	ND	03/09	(VOCS) (1)	
				NO3	15.0	11/06	11.0	12/08		
				CLO4	ND	05/06	ND	12/08	4	
E1444 7	0000000	MUNICIPAL	ACTIVE	PCE	8,2	01/06	3.4	03/09	VULNERABLE	
EW4-7	8000202	MUNICIPAL	ACTIVE	TCE	1.8	02/06	0.3	03/09	(VOCS) (1)	
				NO3	18.0	01/06	11.0	12/08	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
				CLO4	ND	12/05	ND	12/08		
						-			NIII - CANADA - CANAD	
NOTES	ABBREVIATION	CONTAMINAN	Г	MAXIMUM CONTAMINANT LI	EVEL	METHOD DETECTI		REMARK	S	
	4.5.004	4.4 80.44		<i>7</i>	Bankler II S	0.5		(4)	Evinting VOC treatment	
	1,1-DCA	1,1-Dichloroeth		5 micrograms per li 6 ug/L	ner (ug/L)	0.5 ug/L 0.5 ug/L		(1) (2)	Existing VOC treatment VOC treatment under construction	
	1,1-DCE 1,1,1-TCA	1,1-Dichloroein		200 ug/L		0,5 ug/L		(3)	VOC treatment proposed.	
	1,1,2,2-PCA	1,1,2,2-Telrach		1 ug/L		0.5 ug/L		(4)	Existing CLO4 treatment	
	1,2-DCA	1,2-Dichloroeth		0.5 ug/L		0,5 ug/L		NA	Not Available	
	BDCM -	Bromodichloron	nethane	NA		0,5 ug/L		ND	Not Detected	
	BF	Bromoform		NA 400 · · · · · ·		0.5 ug/L		NL	Notification Level Volatile Organic Compounds	
	CF CLO4	Chloroform		100 ug/L 6 ug/L		0.5 ug/L 3.0 ug/L		vocs	voiatile Organic Compounds	
	CLO4	Perchlorate		o ugre		J.U ug/L				

APPENDIX C

COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRAT

HIGHLIGHTS OF VOLATILE ORGANIC COMPOUNDS, NITRATE, AND PERCHLORATE CONCENTRATIONS AND WELLS VULNERABLE TO CONTAMINATION (AS OF JUNE 30, 2009)

	RECORDATION			CONCENTRA	TION (NO3	JG/L)			
WELL NAME	NUMBER	USAGE	STATUS	CONTAMINANT	HISTOR	IC HIGH	MOST	RECENT	REMARKS
					VALUE	DATE	VALUE	DATE	
	СТС	O-1		0.5 "					
		Carbon Tetrachic		0.5 ug/L		0.5 ug/L			
	C-1,2-DCE	Cis-1,2-Dichloroe	,	6 ug/L		0.5 ug/L			
	DBCM	Ethylbenzene Trichlorofluoromethane Trichlorotrifluoroethane		NA		0.5 ug/L			
	EBZ			300 ug/L		0.5 ug/L			
	FREON 11			150 ug/L		5.0 ug/L			
	FREON 113			1200 ug/L		10:0 ug/L			
	MC			5 ug/L		0.5 ug/L			
	MTBE	Methyl Tert-Buty	l Ether	5 ug/L		1:0 ug/L			
	NO3	Nitrate as Nitrate		45 milligrams per liter (mg/L) 600 ug/L		2.0 mg/L			
	o-DCB	1,2-Dichlorobenz	ene			0.5 ug/L			
	p-DCB	1,4-Dichlorobenzene Tetrachloroethylene		5 ug/L		0.5 ug/L			
	PCE			5 ug/L		0.5 ug/L			
	TCE	Trichloroethylene		5 ug/L		0.5 ug/L			
	T-1.2-DCE	Trans-1,2-Dichlo		10 ug/L		0.5 ug/L			
	VC	Vinyl Chloride		0.5 ug/L		0.5 ug/L			

APPENDIX D. Potential Sites for Aquifer Performance Tests

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APPENDIX D POTENTIAL SITES FOR AQUIFER PERFORMANCE TESTS

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NAME	RECORD.	USAGE	STATUS	PERFO. (1)	FUNCTION	REMARKS
LHAMBRA,	CITY OF		dh.			
LON 1	1902789	MUNICIPAL	ACTIVE	411-800	MONITORING	
LON 2	1900017	MUNICIPAL	ACTIVE	296-563	PUMPING	
ZUSA, CITY	OF					
NO. 11	8000178	MUNICIPAL	ACTIVE	200-320	PUMPING	
NO, 12	8000179	MUNICIPAL	ACTIVE	206-311	MONITORING	
ALIFORNIA	DOMESTIC W	ATER COMPA	NY			
05A	8000100	MUNICIPAL	ACTIVE	?-920	PUMPING	
06	1902967	MUNICIPAL	ACTIVE	200-800	MONITORING	
HAMPION M	UTUAL WATE	R COMPANY				
01	1900908	MUNICIPAL	INACTIVE	100-130	MONITORING	
02	1902816	MUNICIPAL	ACTIVE	152-265	PUMPING	
03	8000121	MUNICIPAL	ACTIVE	107-299	MONITORING	
JECAN MAT	ERIALS COM	PANY (CALMA	T COMPANY	,		
DUR E	1902920	INDUSTRIAL	ACTIVE	238-484	PUMPING	
DUR W	8000063	INDUSTRIAL	ACTIVE	?-525	MONITORING	
LENDORA,	CITY OF					
05-E	8000149	MUNICIPAL	ACTIVE	150-400	PUMPING	
NA	1903119	INDUSTRIAL	ACTIVE	?-220	MONITORING	OWL ROCK PRODUCTS WELL
ONTEREY P	ARK, CITY OF	:				
15	8000196	MUNICIPAL	ACTIVE	200-425	PUMPING	
04	1902664	IRRIGATION	ACTIVE	260-752	MONITORING	LAC DEPARTMENT OF PUBLIC WORKS
06	1902666	IRRIGATION	ACTIVE	226-475	MONITORING	LAC DEPARTMENT OF PUBLIC WORKS
ORKMAN M	LL INVESTME	NT COMPANY	(ROSE HILL	S MEMORIA	L PAŖK)	
	1900094	IRRIGATION	ACTIVE	137-264	. PUMPING	
*	8000004	MUNICIPAL	INACTIVE	?-200	MONITORING	BEVERLY ACRES MWG
JRBAN HOM	ES MUTUAL I	WATER COMP	ANY			1
NORTH 1	1900120	MUNICIPAL	ACTIVE	140-100	MONITORING	
SOUTH 2	1900121	MUNICIPAL	ACTIVE	140-190 125-165	MONITORING PUMPING	
N GABRIEL	COUNTY WA	TER DISTRICT				
05 BRA	1901669	MUNICIPAL		450.000	Manuar	
11	8000067	MUNICIPAL	ACTIVE ACTIVE	450-800 350-800	MONITORING	
12	8000123	MUNICIPAL	ACTIVE	470-1320	PUMPING MONITORING	
N GABRIEL	VALLEY WAT	ER COMPANY	ſ			
B24A	8000203	MUNICIPAL	ACTIVE	600-1150	PUMPING	

APPENDIX D
POTENTIAL SITES FOR AQUIFER PERFORMANCE TESTS

GAR 1 1900513 GAR 2 1900612 GRA 1 1900513 GRA 2 1900612 GRA 1 19002461 GRA 2 1902461 GRA 2 1902461 GRA 2 1900511 GOLDEN STATE WATER COMMODE	MPANY (SOU				
FAR 1 1902034 FAR 2 1902948 GAR 1 1900513 GAR 2 1900512 GRA 1 1902030 GRA 2 1902461 SG 1 1900510 SG 2 1900511 GOLDEN STATE WATER COM COL-4 1902268 COL-6 1902270 SUBURBAN WATER SYSTEMS 201W-9 8000208 201W-7 8000195 201W-8 8000198 201W-10 NA VALENCIA HEIGHTS WATER COM VALEY COUNTY WATER DIS E NIXON (JOAN) 1900032 W NIXON (JOAN) 1902356 E MAINE 1900027 W MAINE 1900028	VIPANT (SUC	THEON CAL	IEODNIA WA	TED COMPANY	WEAR CARRIEL WALLEY DISTRIC
GAR 1 1900513 GAR 2 1900512 GAR 1 1900512 GAR 2 1900512 GAR 2 1900512 GAR 2 1902461 GAR 2 1902461 GAR 2 1900511 GAR 2 1900270 GAR 2 19000270		THERN CAL	JFURNIA WA	TER COMPANT	JISAN GABRIEL VALLET DISTRIC
GAR 1 1900513 GAR 2 1900512 GAR 1 1900512 GAR 2 1900512 GAR 2 1900512 GAR 2 1902461 GAR 2 1900510 GAR 2 1900511 GOLDEN STATE WATER COME	MUNICIPAL	ACTIVE	274-455	PUMPING	
GAR 2 1900512 GRA 1 1902030 GRA 2 1902461 GRA 2 1902461 GRA 2 1900510 GRA 2 1900511 GOLDEN STATE WATER COM COL-4 1902268 GOLDEN STATE WATER COM COL-6 1902270 GOLDEN STATE WATER SYSTEMS 201W-9 8000208 GOLDEN STATE WATER GOLDEN STATE WATER SYSTEMS 201W-7 8000195 GOLDEN STATE WATER GOLDEN STATE WATER GOLDEN STATE WATER GOLDEN STATE G	MUNICIPAL	ACTIVE	229-600	MONITORING	
GRA 1 1902030 GRA 2 1902461 GRA 2 1902461 GRA 2 1902461 GRA 2 1900510 GRA 2 1900511 GOLDEN STATE WATER COMMISSION COL-6 1902270 GOLDEN SUBURBAN WATER SYSTEMS 201W-9 8000208 201W-7 8000195 201W-8 8000198 201W-10 NA GOLDEN COLON COL	MUNICIPAL	ACTIVE	?-424	MONITORING	ALTERNATE FOR MONTEREY PARK SITE
GRA 2 1902461 SG 1 1900510 1 SG 2 1900511 1 GOLDEN STATE WATER COM COL-4 1902268 COL-6 1902270 SUBURBAN WATER SYSTEMS 201W-9 8000208 201W-7 8000195 201W-8 8000198 201W-10 NA VALENCIA HEIGHTS WATER OF NA VALEY COUNTY WATER DIS E NIXON (JOAN) 1900032 W NIXON (JOAN) 1902366 E MAINE 1900027 W MAINE 1900028	MUNICIPAL	ACTIVE	377-404	PUMPING	
SG 1 1900510 1 1900511 1 1900511 1 1900511 1 1 1900511 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MUNICIPAL	STANDBY	NA	PUMPING	
SG 2 1900511 GOLDEN STATE WATER COM COL-4 1902268 COL-6 1902270 SUBURBAN WATER SYSTEMS 201W-9 8000208 201W-7 8000195 201W-8 8000198 201W-10 NA /ALENCIA HEIGHTS WATER (05 8000120 07 NA /ALLEY COUNTY WATER DIS E NIXON (JOAN) 1900032 W NIXON (JOAN) 1902366 E MAINE 1900027 W MAINE 1900028	MUNICIPAL	STANDBY	400-475	MONITORING	
COL-4 1902268 COL-6 1902270 SUBURBAN WATER SYSTEMS 201W-9 8000208 201W-7 8000195 201W-8 8000198 201W-10 NA VALENCIA HEIGHTS WATER OF NA VALEY COUNTY WATER DIS E NIXON (JOAN) 1902366 E MAINE 1900027 W MAINE 1900028	MUNICIPAL	ACTIVE	190-411	MONITORING	
COL-4 1902268 COL-6 1902270 SUBURBAN WATER SYSTEMS 201W-9 8000208 201W-7 8000195 201W-8 8000198 201W-10 NA VALENCIA HEIGHTS WATER (05 8000120 07 NA VALLEY COUNTY WATER DIS E NIXON (JOAN) 1900032 W NIXON (JOAN) 1902366 E MAINE 1900027 W MAINE 1900028	MUNICIPAL	ACTIVE	209-393	PUMPING	
COL-6 1902270 SUBURBAN WATER SYSTEMS 201W-9 8000208 201W-7 8000195 201W-8 8000198 201W-10 NA VALENCIA HEIGHTS WATER OF NA VALLEY COUNTY WATER DIS E NIXON (JOAN) 1900032 W NIXON (JOAN) 1902356 E MAINE 1900027 W MAINE 1900028	WPANY (SOU	JTHERN CAL	IFORNIA WA	TER COMPANY)/SAN DIMAS DISTRIC
201W-9 8000208 201W-7 8000195 201W-8 8000198 201W-10 NA VALENCIA HEIGHTS WATER (05 8000120 07 NA VALLEY COUNTY WATER DIS E NIXON (JOAN) 190032 W NIXON (JOAN) 1902356 E MAINE 1900027 W MAINE 1900028	MUNICIPAL	ACTIVE	122-190	PUMPING	
201W-9 8000208 201W-7 8000195 201W-8 8000198 201W-10 NA VALENCIA HEIGHTS WATER 05 8000120 07 NA VALLEY COUNTY WATER DIS E NIXON (JOAN) 1900032 W NIXON (JOAN) 1902356 E MAINE 1900027 W MAINE 1900028	MUNICIPAL	ACTIVE	?-414	MONITORING	
201W-7 8000195 201W-8 8000198 201W-10 NA VALENCIA HEIGHTS WATER (05 8000120 07 NA VALLEY COUNTY WATER DIS E NIXON (JOAN) 1900032 W NIXON (JOAN) 1902356 E MAINE 1900027 W MAINE 1900028	18				
201W-8 8000198 201W-10 NA VALENCIA HEIGHTS WATER (05 8000120 07 NA VALLEY COUNTY WATER DIS E NIXON (JOAN) 1900032 W NIXON (JOAN) 1902366 E MAINE 1900027 W MAINE 1900028	MUNICIPAL	ACTIVE	260-650	PUMPING	
201W-10 NA VALENCIA HEIGHTS WATER (05 8000120 07 NA VALLEY COUNTY WATER DIS E NIXON (JOAN) 1900032 W NIXON (JOAN) 1902366 E MAINE 1900027 W MAINE 1900028	MUNICIPAL	ACTIVE	200-650	MONITORING	
05 8000120 07 NA VALLEY COUNTY WATER DIS E NIXON (JOAN) 1900032 W NIXON (JOAN) 1902366 E MAINE 1900027 W MAINE 1900028	MUNICIPAL	ACTIVE	200-650	MONITORING	
05 8000120 07 NA VALLEY COUNTY WATER DIS E NIXON (JOAN) 1900032 W NIXON (JOAN) 1902356 E MAINE 1900027 W MAINE 1900028	MUNICIPAL	NA	NA	MONITORING	
07 NA VALLEY COUNTY WATER DIS E NIXON (JOAN) 1900032 W NIXON (JOAN) 1902356 E MAINE 1900027 W MAINE 1900028	COMPANY				
VALLEY COUNTY WATER DIS E NIXON (JOAN) 1900032 W NIXON (JOAN) 1902356 E MAINE 1900027 W MAINE 1900028	MUNICIPAL	ACTIVE	230-720	PUMPING	
E NIXON (JOAN) 1900032 W NIXON (JOAN) 1902356 E MAINE 1900027 W MAINE 1900028	MUNICIPAL	ACTIVE	244-724	MONITORING	
W NIXON (JOAN) 1902356 E MAINE 1900027 W MAINE 1900028	STRICT				
E MAINE 1900027 W MAINE 1900028	MUNICIPAL	ACTIVE	300-586	MONITORING	ALTERNATE FOR MAINE SITE
W MAINE 1900028	MUNICIPAL	ACTIVE	300-584	PUMPING	
W MAINE 1900028	MUNICIPAL	ACTIVE	250-580	PUMPING	ALTERNATE FOR NIXON SITE
	MUNICIPAL	ACTIVE	250-580	MONITORING	
VALLEY VIEW MUTUAL WATE	ER COMPAN	1Y	304	C.	
					ì
	MUNICIPAL	ACTIVE	300-585	MONITORING	
02 1900364	MUNICIPAL	ACTIVE INACTIVE	300-535 100-200	PUMPING MONITORING	

NOTES

NA NOT AVAILABLE

⁽¹⁾ TOP OF THE TOP INTERVAL - BOTTOM OF THE BOTTOM INTERVAL (DEPTH BELOW GROUND SURFACE IN FEET)

APPENDIX E.

SUMMARY OF TREATMENT FACILITY

ACTIVITY IN THE MAIN SAN GABRIEL BASIN

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SUMMARY OF TREATMENT FACILITY ACTIVITY IN THE MAIN SAN GABRIEL BASIN AS OF JUNE 30, 2009

				Total Water	r Treated	Total Contamin	ants Removed
Operable Unit	Treatment Facility Owner	Treatment Facility(s)	Start Date 1/	Fiscal Year 2008-09 (Acre-feet)	Accum. Total (Acre-feet)	Fiscal Year 2008-09 (Pounds)	Accum. Total (Pounds)
AREA 3	ALHAMBRA, CITY OF	Well No. 7 Well No. 7, 8, 11 & 12	July 2001 April 2009	859.00 12.00	7,092,35 12.00	12,4 0.8	125.0 0.8
BPOU	LA PUENTE VALLEY COUNTY WATER DISTRICT	Well No. 2, 3 & 4 Well No. 2 & 3 (BPOU)	August 1992 January 2000	3,795.32	11,493,13 27,634,85	734,0	826,9 7,053,7
	SAN GABRIEL VALLEY WATER COMPANY	Well B6C Well B6D Plant B6 (BPOU) Plant B5 (BPOU)	April 1994 April 1994 Seplember 2004 January 2007	8,149.12 9,428.36	5,194.17 14,526,27 40,400.02 18,694.61	1,852.2 204.5	856.2 421.7 7,864.0 459.5
	VALLEY COUNTY WATER DISTRICT	Lante Lante, SA1-1 & SA1-2 (BPOU)	June 1984 December 2004	8,088.89	7,719,61 25,540,27	5,934.0	10,356,7 14,098.2
EMOU	ADAMS RANCH MUTUAL WATER COMPANY	Well No. 3	November 2003	66.59	442.59	1.4	16.4
	GOLDEN STATE WATER COMPANY (SGV)	Encinila No. 1, 2 & 3	April 1998	1,155,39	12,423,91	27.8	311,2
PVOU	BDP - CARRIER	Carrier	April 1988	228.57	5,817.01	19,9	2,750.6
SEMOU	MONTEREY PARK, CITY OF	Well No. 5 Well No. 9 & 12, 15	September 1999 April 2002	1,890,34 4,742,26	10,051.09 27,206.15	182.4 859.2	719.3 3,510.4
	SAN GABRIEL VALLEY WATER COMPANY	Well 8B, 8C, 8D & 8E	August 2002	2,148.31	22,535.47	291,6	2,006.8
WNOU	EPA	WNOU (Shallow Zone)	December 1999	2,073,82	23,119.47	11.8	1,610,1
	WHITTIER, CITY OF	WNOU (Intermediate Zone)	December 2005	2,325.57	16,538,91	77.1	749.7
PRODUCER FACILITY							
, Aviant	ARCADIA, CITY OF	Longden 1 & 2	January 1985	778.89	62,657.80	11.4	696.3
	BOZUNG	Well B36, F38, F39 & BC34 2/	October 1994	-	233.00	-	131.3
	CALIFORNIA DOMESTIC WATER COMPANY	Well No. 3, Well No. 5A, Well No. 6 & Well No. 14	September 1993 April 1997	14,895.72	223,945.22	1,084.3	6,360.5
	EL MONTE, CITY OF	Well No. 12 Well No. 10 Well No. 2A	February 1997 May 2004 July 1999	739.81 454.79 383.59	12,392.75 3,356.07 5,161,07	87.4 2.9 5.0	650.7 27.8 94.2
	EPA	Richwood (North Well) 3/ Richwood (South Well) 3/	April 1990 April 1990	7-0	451,98	220	5.8
	GOLDEN STATE WATER COMPANY (SGV)	San Gabriel No.1 & 2	November 2001	1,357.30	6,663.09	31,1	289.0
	GOLDEN STATE WATER COMPANY (SD)	Arl 2 & 3, Base 3 & 4, Hwy 1	May 2005	1,479.60	6,875.05	23.2	62.2
	HEMLOCK MUTUAL WATER COMPANY	Hemlock (North Well) 4/ Hemlock (South Well) 4/	April 1986 April 1986	-	2,553.65	2	44.6
	MONROVIA, CITY OF	Wells No. 2 & 6 Wells No. 3, 4 & 5	March 1996 October 2007	2,449.06 1,043.51	28,860.12 1,537.45	58.0 9.5	481.6 13,9
	MONTEREY PARK, CITY OF	Well No. 1, 3 & 10	June 2004	2,404.23	13,506,89	131,8	1,152.5
	SAN GABRIEL VALLEY WATER COMPANY	Well 11B Well B11B Well B7C Well B4B & B4C Well G4A	March 1991 March 1993 March 1993 January 1999 December 2005	1,620.25 1,459.53 2,326.70 — 451.60	37,725,65 34,869,38 39,448,91 24,093,04 2,707,72	5.9 93.2 83.7 — 5.8	300.1 2,546.5 1,501.7 1,233.5 46.1
	SUBURBAN WATER SYSTEMS	Well No. 140W-4 4/	May 2001	8	2,247.59	-	16.2
	VALLEY COUNTY WATER DISTRICT	Maine East & West Nixon East & West 4/	June 1990 January 2004	3,042.66	29,129,30 11,307.90	46.0	1,644.5 87.0
	WATER QUALITY	Arrow (Project No. 1) 4/	February 1992	_	7,250.41	_	17,423,0
	AUTHORITY	Big Dalton (Project No. 2)	March 1997	_	1,229.02	-	82.5
		Former Bozung Sile	January 2008	36,46	56.69	26,9	44.8
		SEMOU	July 1999	z=z	3,885.19	-	1,558.5
			TOTAL	79,887.24	838,586-82	11,915,20	90,231,99
	Fontnotes:						

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Footnotes:

1/ From date of beginning of operation.

2/ Treatment facility has been permanently dismaniled.

3/ Wells destroyed in June 1999.

4/ Wellfield no longer pumps to treatment facility.

APPENDIX F.

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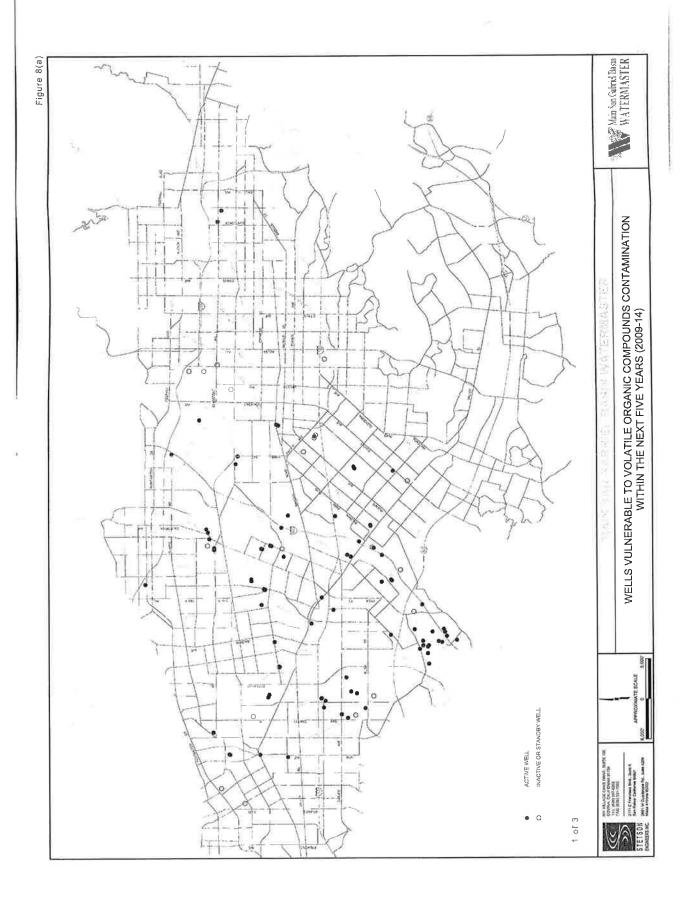
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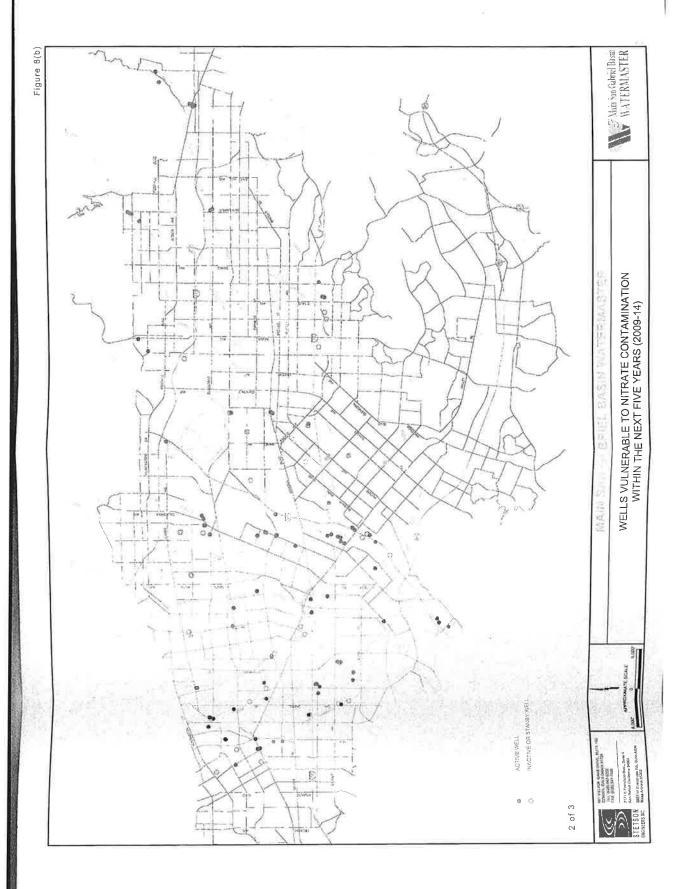
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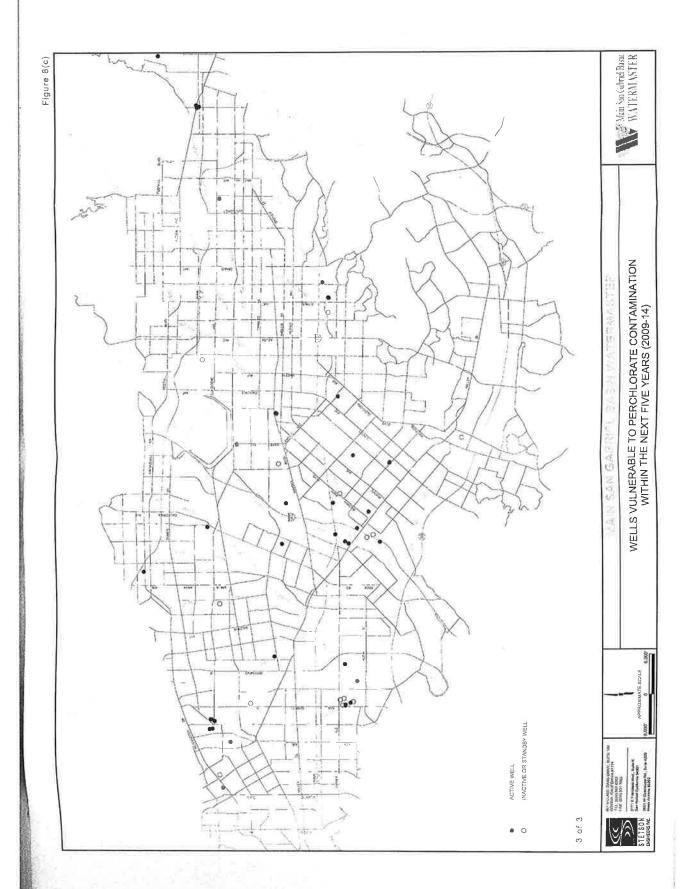
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Maps Showing Wells Vulnerable to VOC, Nitrate and Perchlorate Contamination Within Five Years (Figures 8a, 8b, and 8c)







APPENDIX G.

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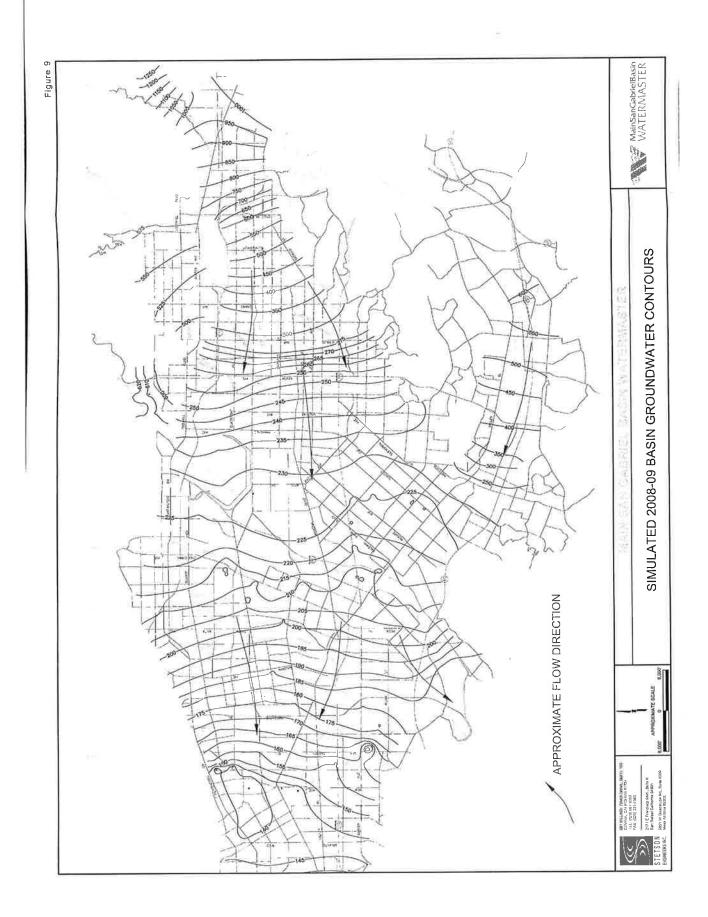
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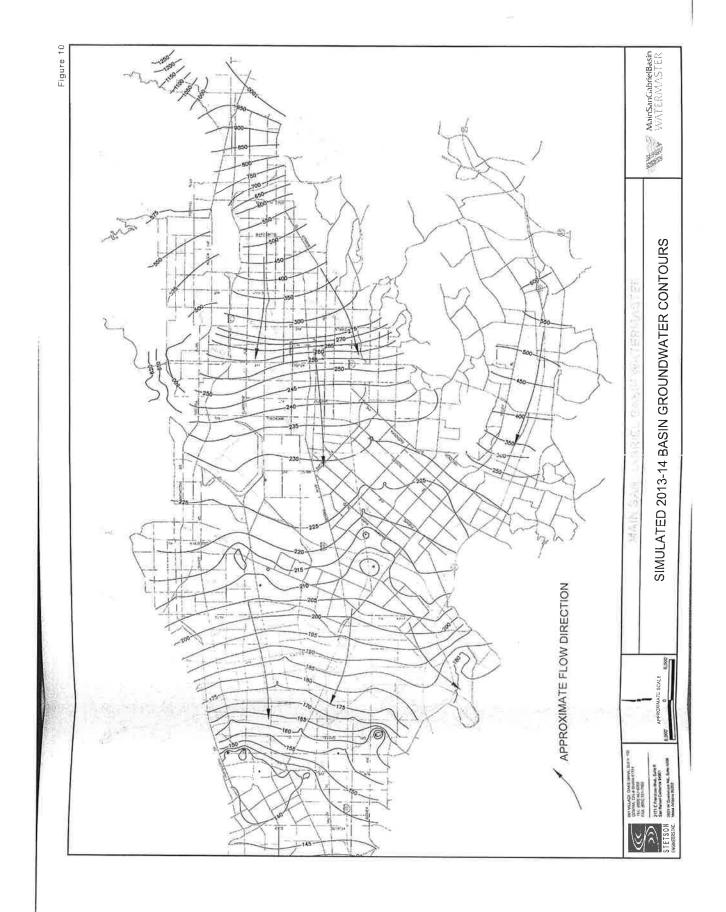
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SIMULATED BASIN GROUNDWATER CONTOURS 2008-09 AND 2013-14 (Figures 9 and 10)





APPENDIX G Policy No. 9-00-8

POLICY NO. 9-00-8

UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT

Policy Regarding the Participation of the District in the funding of Wellhead Treatment and Groundwater Remediation Projects in the Main San Gabriel Groundwater Basin

I. Purpose

The purpose of this policy is to set forth criteria and conditions by which the Board of Directors of the Upper San Gabriel Valley Municipal Water District will consider providing funding, exclusively or in cooperation with the San Gabriel Basin Water Quality Authority (WQA), Main San Gabriel Basin Watermaster (Watermaster) and other interested parties, for wellhead treatment and/or groundwater remediation projects in the Main San Gabriel Groundwater Basin. This policy also establishes the general manner and methodology by which such funding can be distributed by the District for approved projects and programs.

II. Statement of Facts

The primary duty of the District is to provide a safe and reliable supplemental water supply for the San Gabriel Valley water agencies. The water supplied by the District is utilized by retail water purveyors to supplement the naturally occurring groundwater pumped from the Basin. The District principally relies on imported sources of water (Sacramento Delta and Colorado River) to satisfy local demand for supplemental water supply.

The annual demand on the District for untreated and treated supplemental water has been as high as 60,000 acre feet. Treated water is used for direct municipal and industrial applications and untreated water is used to augment natural groundwater basin recharge and help mitigate basin over-draft.

As a founding member of the WQA, the District recognizes and supports WQA's §406 Plan ("Plan") (Exhibit A) which provides prescriptive remedies for groundwater contamination in the San Gabriel Valley. In recognition of the Plan and its purpose, the District will work in concert with the WQA to implement the Plan thereby strengthening its position in potentially recovering the funds provided under this policy.

III. Issues

Historic commercial and residential land uses in the San Gabriel Valley have caused the introduction of a wide variety of regulated pollutants to the groundwater basin. In some cases, beneficial use of groundwater is precluded in those areas of the basin where contamination is sufficiently pervasive. Contaminant migration and the discovery of new pollutant species is further limiting the production of groundwater from the basin.

High capital costs create a disincentive for retail water purveyors to construct treatment facilities necessary to keep contaminated wells in operation. As a consequence, opportunities will be lost to remediate the groundwater basin by extracting and treating contaminated water at those impacted sites. Additionally, the deactivation of contaminated wells may cause the contaminants to migrate to otherwise uncontaminated areas of the basin. Further, as the basin water quality continues to degrade, retail purveyors will likely become more reliant on imported water supplies to meet the needs of their customers.

Due to greater competition and higher unit price for imported water supplies, shifting production off the basin carries significant ramifications for the San Gabriel Valley. Such a shift away from groundwater use will effect unfavorable economic and water supply reliability consequences for both residential and commercial customers alike. Thus, the Board of Directors find that it is within the District's scope of responsibility and in the best interest of the public to enact programs that will preserve and optimize the use of the groundwater resources of the San Gabriel Valley.

IV. Policy Objectives

Within the precincts of its statutory authority, budgetary limitations and policy objectives, the District will provide financial assistance for the procurement and/or construction of treatment facilities at contaminated well sites in the San Gabriel Valley. The principle objectives of this program, in no particular order, are:

- 1. Optimize local utilization of groundwater resources.
- 2. Reduce or eliminate local reliance on treated, non-interruptible imported water supplies.
- 3. Maximize local water supply reliability.
- 4. Provide for wholesale water supply price efficiency.
- 5. Protect public health and safety.

V. Policy Guidelines

Projects to be considered for approval by the Board must meet the guidelines of this program and satisfy certain criteria to qualify for funding under this program. That criteria is listed as follows:

- 1. The project must be located within the boundaries of the USGVMWD.
- 2. The project must be constructed in a manner so as to reactivate, or maintain operation of, an existing well that otherwise could not continue operation because of excessive contamination.
- 3. The project must be designed such that its operation presents a significant water supply benefit to the public served.
- 4. The project must be designed such that its operation provides a significant groundwater remediation benefit.

- The project must employ proven or DHS certified treatment technology to allow for a high probability of success.
- 6. The project must be structured such that either the District has a reasonable probability of substantial cost recovery from parties responsible for groundwater contamination, or it addresses an urgent and immediate public health and safety crisis that cannot be resolved in a more efficient and effective manner.
- 7. The project must be reviewed by the District Engineer.

Funding can be provided in several forms depending upon the circumstances surrounding the project. When structuring the distribution of funds, factors such as the likelihood of cost recovery, the future availability of other sources of funding and the primary goals of the project will be considered. To maximize the potential for cost recovery and securing funding from other sources, District project funds will be distributed through the WQA's project accounts where possible.

VI. Implementation Procedure

- 1. The project proponent will submit a funding request for a conceptual or specific project.
- 2. Staff will review the request for policy compliance and forward the request to the District Engineer for appraisal.
- 3. Staff and Engineer will meet with project proponent to resolve any outstanding issues and finalize application materials.
- 4. Staff and Engineer will consult and coordinate with Watermaster and the WQA to develop a draft implementation plan for the project.
- 5. Staff and Engineer will prepare a recommendation regarding the proposed project for consideration by the Board of Directors.
- 6. The Board of Directors will provide staff and Engineer specific direction regarding the proposed project.

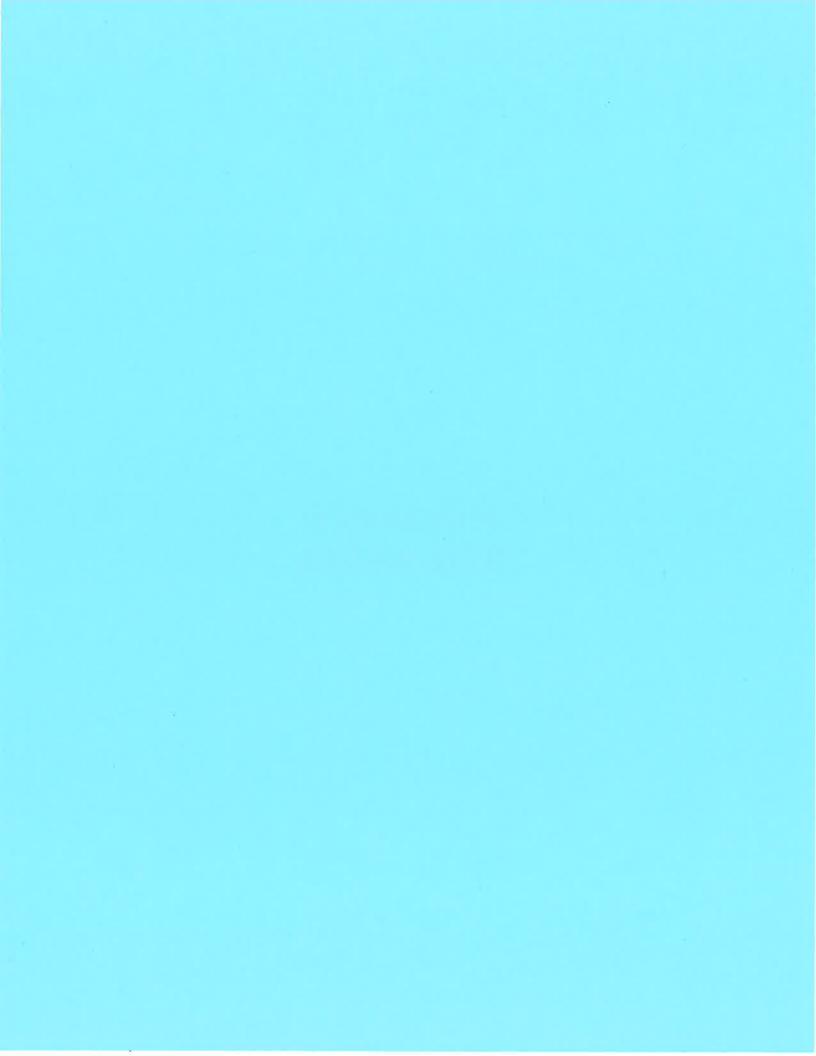
Dated this 19th of September, 2000.

President

Secretary

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APPENDIX H WQA 406 Plan



San Gabriel Basin Groundwater Quality Management and Remediation Plan "§406 Plan"

SAN GABRIEL BASIN

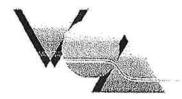
Water Quality Authority

Greg Nordbak - Chairman Jim Byerrum - Vice Chairman Bob Kuhn - Treasurer Margaret Clark - Secretary

Carol Montano - Board Member Michael L. Whitehead - Board Member Kenneth R. Manning - Board Member

Cleaning Up Our Groundwater For Future Generations

March 21, 2005



San Gabriel Basin Water Quality Authority

858 Oak Park Road, Suite 200, Covina, California 91724 * (626) 859-7777 * Fax (626) 859-7788

http://www.wga.com

Executive Summary San Gabriel Basin Groundwater Quality Management and Remediation Plan for Year 2005

Purpose and Goals of Plan

The San Gabriel Basin Groundwater Quality Management and Remediation Plan ("§406 Plan") amends the San Gabriel Basin Groundwater Quality Management and Remediation Plan adopted in 2004. The §406 Plan is an accelerated plan to clean up groundwater pollution in the San Gabriel Basin. The plan includes project descriptions and identifies funding sources such as responsible parties as well as federal funding through the San Gabriel Basin Restoration Fund and the Title XVI program, state funding through Proposition 13, Proposition 50 and local programs.

The plan recognizes that the pollution problem is so critical in some areas that accelerated action is necessary to halt the spread of underground toxins before they contaminate more drinking water wells and adjacent aquifers. The other major component of the plan is that it places a high priority on recovering the valuable water generated by cleanup facilities for beneficial use.

Having taken federal and state agencies years to define the extent of the pollution and identify responsible parties, the \$406 Plan refines WQA's objectives, principles, remedial standards and activities. These elements will move the WQA into an accelerated phase to achieve results much faster. On-going efforts will now be stepped up to acquire funds from responsible parties while making it clear that the WQA will not sacrifice cleanup and water supply reliability activities and will pursue litigation in those situations in which the parties are not willing to voluntarily participate in a timely manner.

Details of the Plan

- Addresses contamination in the Baldwin Park, El Monte, South El Monte, Puente Valley, Alhambra and Whittier Narrows areas
- Describes funding requirements of cleanup projects in the affected areas
- Pursues voluntary participation from responsible parties except where litigation becomes necessary
- Places a priority on developing projects that combine cleanup with supply
- Seeks to leverage funding from responsible parties, federal, state and local agencies to further the cleanup effort

You may view a copy of the WQA \$406 Plan on our website: www.wga.com

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VOLUME I

I. Legal Authority

This §406 Plan is developed and adopted under the authority of the WQA Act. §406 of the WQA Act requires the WQA "to develop and adopt a basinwide groundwater quality management and remediation plan" that is required to be consistent with the EPA's National Contingency Plan ("NCP") and Records of Decision ("ROD") and all requirements of the Los Angeles Regional Water Quality Control Board ("LARWQCB"). According to the WQA Act, the §406 Plan must include:

- 1) Characterization of Basin contamination;
- 2) A comprehensive cleanup plan;
- 3) Strategies for financing the design, construction, operation and maintenance of groundwater cleanup facilities;
- 4) Provision for a public information program; and
- 5) Coordination of activities with federal, state, and local entities.

The WQA shall review and adopt this §406 Plan on an annual basis and, if necessary, shall make revisions according to changing regulatory, political and/or funding environments.

In support of the §406 Plan, the WQA shall also adopt an annual fiscal year budget (July 1 through June 30) which shall include all projects (actual or planned) that WQA is facilitating through its participation during that time period. The budget shall identify various funding sources and combinations thereof to ensure that full funding for each project (capital and/or O&M) can be achieved.

II. Policy Statement for Year 2005

The WQA general policy statement is the foundation of the §406 Plan. Therefore, the first steps in revising the §406 Plan are to review the past year's activities and to identify successes as well as challenges and obstacles that may have delayed or hindered cleanup progress. Using that information as a basis, WQA can apply current conditions and determine WQA's direction for the coming year.

Summary

As in previous years, the San Gabriel Basin Water Quality Authority ("WQA") is revising its San Gabriel Basin Groundwater Quality Management and Remediation Plan ("§406 Plan"). The §406 Plan which is required by our enabling act ("WQA Act"), Statutes 1992, Chapter 776 (West's California Water Code Appendix, §134-101 et seq.) promotes improvement of groundwater quality in the San Gabriel Basin ("Basin") by setting forth: (1) a general process under which this plan shall be developed and implemented; (2) remedial goals; and (3) a restatement of existing regulatory authority governing cleanup within the Basin, in addition to requirements of the United States Environmental Protection Agency ("EPA"). Additionally, elements of the §406 Plan fit into a framework of overarching remedial principals and sets forth specific projects proposed to be facilitated by the WQA or by others within the Basin.

Date:

This §406 Plan is effective March 21, 2005.

Address:

Supporting materials are available for viewing at WQA offices, located at 858 Oak Park Road, Suite 200, Covina, CA 91724. WQA offices are open from 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding recognized holidays. It is recommended that an appointment be made to review these materials by calling (626) 859-7777.

General Information:

For general information, WQA may be contacted at (626) 859-7777 between the hours of 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding recognized holidays. Various materials may also be viewed on the Internet at www.wqa.com.

POLICY STATEMENT 2005

The WQA was created and authorized by the State Legislature to address the critical need for coordinated groundwater cleanup programs in the San Gabriel Basin. The WQA is committed: 1) to protecting public health and safety; 2) to prioritizing, facilitating, and coordinating groundwater cleanup/supply programs with local water providers and/or U.S. EPA; and 3) to minimizing local financial and economic impacts, including impacts on local groundwater consumers. The WQA recognizes groundwater contamination issues in the San Gabriel Basin are complex and the U.S EPA Superfund response alone may not adequately address the environmental, regulatory and financial issues that affect the one million residents and the many thousands of businesses who rely primarily on the San Gabriel Basin for potable water. In order to address affected local water supplies, as well as cleanup and containment goals, WQA will promote and participate in technical and financial partnerships, wherever possible. If partnerships cannot be voluntarily formed in a timely manner, WQA will seek ways to move forward and implement the necessary groundwater cleanup and will consider all options to require financial participation from those responsible for the contamination.

Based upon this analysis, WQA will modify its direction to pro-actively approach the rapidly growing problems of emerging chemicals ("EC"). Requests and competition for federal and state funding (primarily due to nationwide perchlorate problems) have escalated significantly in the last year. At the same time, local groundwater providers continue to face growing ambiguity and sometimes conflicting federal and state requirements.

The revised Policy Statement will become effective with the adoption of this document and will remain in effect until institutional, environmental or other changes necessitate a revision of the Policy Statement.

III. Background Information

A. OVERVIEW OF THE GROUNDWATER CONTAMINATION

The San Gabriel Valley's groundwater Basin has the dubious distinction of being one of the most contaminated in the nation. The Basin's groundwater is contaminated from the ground disposal—dating back to World War II— of synthetic organic compounds used primarily as solvents in industrial and commercial activities.

The seriousness of the groundwater contamination problem became evident when high concentrations of volatile organic compounds ("VOCs") were discovered in Azusa in 1979 near a major industrial complex. Over the next four years, further investigation revealed widespread VOC contamination significantly impacting the Basin. This discovery led EPA to place four portions of the Basin on the NPL under authority of Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), also known as the Superfund program.

Unfortunately in 1997, newly detected contaminants, perchlorate and N-Nitrosodimethylamine (NDMA) liquid/solid rocket fuel, complicated and delayed progress. Most notably affected was the largest geographical area of the San Gabriel Valley Superfund site known as the Baldwin Park Operable Unit (BPOU). This led EPA, state and local agencies to conduct further investigation of the sources and treatment technologies available for remediating potable water.

In prior years, several VOC treatment/supply projects were expanded at significant costs to treat perchlorate and other emerging compounds. More recently, many of these multiple treatment train projects were further burdened with increased levels of VOCs. As a result, additional VOC treatment, also known as "dual-barrier", was needed to meet State Department of Health Services ("DHS") permitting requirements under their Technical Memorandum 97-005. While the additional treatment is necessary, each step has incrementally increased the costs of capital construction and operations and maintenance resulting in an overall project cost 4 to 5 times the original VOC treatment/supply project. Of all of the operable units in the basin, South El Monte Operable Unit ("SEMOU") has been affected the most by the need for additional treatment.

B. OVERVIEW OF WQA AUTHORITY

WQA was formed by special act of the California Legislature (Senate Bill 1679, Russell). The WQA Act gives WQA authority, *inter alia*, to plan for and to coordinate among several agencies with authority affecting cleanup of the Basin. §406 of the WQA Act requires WQA to develop and adopt a basinwide groundwater quality management and remediation plan. §406 further requires the plan to provide for: (1) a characterization of the Basin's contamination; (2) the development and implementation of a comprehensive Basin cleanup plan; (3) the financing of the design, construction, operation, and maintenance of groundwater cleanup facilities; (4) provisions for a public information and participation program; (5) the coordination with federal, state and local entities; and (6) the maintaining of consistency with the National Contingency Plan, any applicable EPA RODs, all LARWQCB requirements, and all applicable cleanup agreements with federal, state and local agencies. The §406 Plan has to be developed with an eye toward the statutory requirement that "the basin-wide plan shall consider the benefits to be achieved by the plan or any proposed project in relation to its economic impact on persons or entities within the boundaries of the authority."

C. HISTORY OF WQA PLANNING

As required by §406, WQA first adopted the §406 Plan in June of 1993. This plan identified a mission and eight goals and served as the guiding principles over the next six years of early action projects to remove and contain contamination (well ahead of the Superfund-mandated process) and to characterize the extent and movement of contamination.

Once the data, necessary to design and construct projects on a regional basis, was available, including information on the extent and movement of groundwater contamination, the WQA officially adopted the amended the §406 Plan on March 6, 2000. Since that time, the WQA, using the §406 Plan as its implementation guide, facilitated the design and/or construction of several treatment facilities described within the §406 Plan.

As in previous years, the WQA will continue to assist EPA with its response efforts by engaging the authority of other agencies. Section 102(b) of the WQA Act declares legislative intent directing the WQA to coordinate among state and federal government agencies to plan and implement groundwater cleanup. The Remedial Standards (Section V(b)) established by the §406 Plan (as required by Section 106 of the WQA Act) incorporate rules, regulations and standards previously adopted by other agencies of the State of California. The Remedial Standards harmonize and coordinate the requirements of the Main San Gabriel Basin Watermaster ("Watermaster"), the State Water Resources Control Board ("SWRCB"), the LARWQCB, and the DHS. One purpose of the Remedial Standards is to help integrate groundwater cleanup objectives with water supply objectives, according to the legislative intent directive set forth in Section 102(a) of the WQA Act.

The EPA has recognized some of these Remedial Standards as applicable or relevant and appropriate requirements (ARARs). Federal Superfund Law requires parties responsible for pollution to comply with ARARs in the process of carrying out federal cleanup orders. ARARs include any State standard that is (1) more stringent than any Federal requirement, (2) validly promulgated, (3) either "applicable" or "relevant and appropriate" and has been identified by the State to the USEPA. Due in part to the efforts of the WQA, the EPA's Unilateral Administrative Order (No. 2003-17)

for remedial design and remedial action in the SEMOU of the San Gabriel Valley Superfund Sites, issued on August 28, 2003, (1) encourages the parties identified as responsible for the pollution to integrate their cleanup obligations with water supply projects that exist or are under development and (2) directs compliance with ARARs, such as meeting water quality standards for potable water service established by DHS and/or for discharge of the product water established by the LARWQCB.

IV. Goals of the WQA §406 Plan

Originally, WQA's goals were developed as a result of discussions with federal, state and local agencies, various stakeholders, and comments heard at public workshops and hearings. Each year, the goals are re-evaluated to determine applicability and whether any additional goals should be added. While these goals have remained unchanged, WQA has expanded the descriptions under the four goals to further validate WQA's focus. The four goals are:

- 1) Accelerate Removal of Contaminant Mass in the Basin;
- 2) Prevent Migration of Contamination into Critical Groundwater Supplies;
- Integrate Cleanup with Water Supply; and
- 4) Minimize Economic Impact to the Public.

In the following sections, each of the four goals are described in more detail.

A. ACCELERATE REMOVAL OF CONTAMINANT MASS IN THE BASIN

In recent years, it has become increasingly apparent that cleanup actions, implemented earlier than CERCLA provides, are needed to address the immediate threats to the local water supplies. The goal of accelerating the removal of contaminant mass is fulfilled primarily by engaging the regulatory processes of other agencies of the State, and, wherever possible, prompting the implementation of activities ahead of the time required under the applicable regulatory process.

In the past, the WQA identified and focused its accelerated removal activities on projects that could immediately be implemented to remove contaminant mass. In more recent years, the focus has changed due to the ever-growing list of impacted water supply wells. This widespread impact has necessitated the early implementation of several treatment facilities by water purveyors, individually and jointly with the WQA and/or other agencies well ahead of the mandate from regulatory agencies.

WQA now primarily focuses on projects that will accelerate and advance cleanup activities while providing a clean water supply. More of these types of early actions are necessary to either (1) remove contaminant mass to immediately prevent further degradation of downgradient aquifers, (2) contain the spread of contamination to protect critical water supplies, (3) restore critical water supplies, or (4) combine the aforementioned.

Although early actions are implemented before a regulatory mandate, there has and will continue to be extensive coordination with EPA and the LARWQCB to link the early action to the eventual mandate. By working closely with EPA, the WQA and other local stakeholders can affect EPA's decision-making and identify certain high priority cleanup projects that are consistent with EPA's objectives. Although EPA cannot formally endorse and mandate cleanup until a rigorous process is completed, WQA can facilitate and assist in the implementation of the required action well before the mandate. Several crisis situations exist within the Basin that demand this type of immediate action as described in Appendix A. Waiting on mandated actions have already had severe impacts in many parts of the Basin.

B. PREVENT MIGRATION OF CONTAMINATION INTO CRITICAL GROUNDWATER SUPPLIES

In many parts of the Basin, the contamination continues to spread towards, and threaten groundwater supply wells. Given that so many supply wells have already been shut down, the current situation continues to represent a significant threat to the Basin's water supply. Therefore, priority must be given to implementing cleanup projects that will prevent the loss of water supplies. In order to meet this goal, contaminant migration must be implemented quickly so that constituents will be prevented from entering clean

supplies. Further, this action must also prevent constituents from entering supplies with existing treatment not built or suited to treat the threatening contaminant(s). The goal to contain the contamination is supported with actions that specifically address threats to groundwater pumping centers. Loss of major production centers will continue to impair the water supply unless these types of threats are immediately addressed in a cleanup plan.

The Watermaster has existing rules and regulations which govern the location and production of water wells for water quality purposes. The WQA under this §406 Plan will work with the Watermaster and its existing rules and regulations to help contain and control the migration of contaminants within the Basin.

C. INTEGRATE CLEANUP WITH WATER SUPPLY

With so much of the local water supply impaired, it is essential that water treated from the cleanup projects be put to its highest and best use. Putting the treated water back into the supply system will serve to enhance the overall water supply situation in the Basin and help many water purveyors mitigate the threat to their water supply. The desired objectives can be achieved by maximizing the use of existing facilities that have either been shut down or have been impaired. When new facilities are needed, these should be integrated into the supply of the appropriate water purveyor.

If cleanup facilities are built without the consideration of the local supply, then many water purveyors will be forced to build redundant treatment facilities on impaired wells or import increasingly scarce surface supplies from other areas. Currently, water purveyors only use surface water sources when they are readily available or when groundwater sources become impaired or unavailable; otherwise the predominant source of supply is from the local groundwater.

Although cleanup projects that put treated water to beneficial use will provide localized benefits, there are, of course, broad benefits that impact the regional water supply situation in California. The necessity to develop new sources and to fully utilize existing sources is very evident in court decisions within the State and the Colorado River Watershed. For example, the 2003 Quantification Settlement Agreement ("QSA") between the United States Department of the Interior and Southern California Colorado

River users restricts the State's withdrawal of Colorado River water to its original allotment of 4.4 million acre-ft per year in non-surplus years. In addition, the dependability of the State Water Project is decreasing as a result of a lack of storage facilities, and there are potential restrictions that may result from the ongoing CALFED process. Now more than ever, it is critical to protect and develop the groundwater resources so that both groundwater and surface waters of the State can be managed more effectively. Critical to this statewide need is the full utilization and restoration of the Basin groundwater.

The Los Angeles County Superior Court has Constitutional authority, through its continuing jurisdiction under the Judgment in the case of Upper San Gabriel Valley Municipal Water District v. City of Alhambra, LACSC 924128, to promote the beneficial use of water and to prevent the waste of water in the Basin. Through the Court's continuing jurisdiction under the Judgment, the Watermaster has adopted rules and regulations governing the location and production of water wells for water quality purposes. The LARWQCB has Constitutional, statutory and regulatory authority to regulate discharges to waters of the State, to promote the beneficial use of water, and to prevent the waste of water. DHS has statutory and regulatory authority to set and enforce standards for public drinking water systems, including acceptable water treatment processes. The WQA intends to engage the existing rules, regulations and standards of these agencies of the State to coordinate and promote the reasonable and beneficial use of water produced and treated under mandate from the EPA. WQA recognizes that a number of voluntary or consensual arrangements ultimately will be required to implement the objective to integrate water cleanup operations and water supply operations in the Basin. In addition to engaging existing regulatory authority held by other agencies, WQA intends to encourage the needed voluntary or consensual arrangements through the exercise of authority under the WQA Act, including its authority to seek recovery of WQA's costs to respond to and cleanup groundwater contamination in the Basin.

D. MINIMIZE ECONOMIC IMPACT TO THE PUBLIC

The issue of who pays for the cleanup is often the biggest obstacle in initiating the necessary cleanup programs. Although Potentially Responsible Parties (PRPs) may be held completely liable for the costs of a response action under the CERCLA mandate, actions normally do not occur until a lengthy process is completed. Equally detrimental to the water supply crisis is the fact that there is no assurance that the immediate water supply concerns will be addressed under CERCLA. Therefore, many water purveyors may still need to construct their own treatment facilities or look for alternative supplies at their own expense even after the PRPs fulfill their obligation under CERCLA.

Adding to the economic complexity of the situation is the fact that EPA conducts its own detailed financial evaluation of PRPs and may settle for a reduced amount. And even then, many businesses cannot fully absorb the financial liability without detrimentally impacting their businesses. In the meantime, the spread of contamination continues to impact more water supply sources and, by extension, the basic reliability of plentiful water to support the economic basis and vitality of the Basin. To address this goal, WQA has pursued and continues to aggressively pursue sources of funding from responsible parties and the federal/state government. Despite these efforts, organizations like WQA and some of the local water purveyors have had to pool their own resources to immediately initiate many of the required response actions. This has required a financial commitment on behalf of the local public (at least initially). Early actions financed outside of the CERCLA process have been necessary to assure that many of the critical projects are implemented quickly. In addition, cleanup projects such as those prescribed by WQA are designed from a local perspective to address groundwater cleanup in conjunction with the water supply. However, costs borne by the public for this effort would have to be absorbed or recovered through litigation.

To accommodate potentially conflicting goals between accelerating cleanup and minimizing impact to water rate payers, WQA has identified high priority response actions that can be implemented ahead of EPA's mandate using available financial resources, including federal reimbursement funding, and in some cases, financial participation from PRPs. If a required project lacks sufficient funding, a commitment by

the affected water purveyors and/or WQA through its assessment, along with other potential local sources, will be required. Where WQA is required to use its own assessment to quickly assist in the development of a project, WQA will always consider cost recovery actions to minimize costs borne by the public. To that end, WQA has already filed two cost recovery actions and may be soon considering other cost recovery actions against those responsible entities that chose not to participate in the sponsored early remedial actions.

V. §406 Plan

A. DEFINITIONS

- 1. This §406 Plan incorporates by reference the definitions of "facility," "hazardous substance," "national contingency plan," and "person". The terms "remedial action," or "remedy," or "cleanup," or "remediation," are used interchangeably herein. Additionally, such terms are intended to be encompassed by the definitions of "remove", "removal," "remedy," "remedial action," "respond," or "response," as appropriate and as those terms are defined in Title 42 (CERCLA) of the United States Code, § 9601, as amended.
- 2. This §406 Plan incorporates by reference Title 42 of the United States Code, §9607 (a), as amended, the class of persons who are PRPs for the cleanup of hazardous substances.

B. REMEDIAL STANDARDS

The WQA has identified certain appropriate rules, regulations and standards for the management of Basin remedial actions from among the rules, regulations and standards promulgated by the Watermaster, the LARWQCB and DHS. The rules, regulations and standards specified below are incorporated by reference in this §406 Plan and adopted as the Remedial Standards of the WQA.

These Remedial Standards, and the underlying existing rules, regulations and standards of the Watermaster, LARWQCB and DHS are additional requirements of the State which are applicable or relevant and appropriate to remedial actions ordered by the EPA in the Basin. (See Appendix C-2).

WQA will engage the existing procedures of the Watermaster, the LARWQCB and the DHS to implement the following Remedial Standards so that all remedial actions affecting Basin groundwater shall be conducted accordingly.

1. WATERMASTER SECTION 28

In furtherance of two objectives of this §406 Plan to prevent migration of contamination into critical groundwater supplies and to integrate cleanup activities with water supply operations, production of Basin water for remedial action purposes shall be carried out in conformance with Section 28 of the Rules and Regulations adopted by the Watermaster under authority of the Amended Judgment in *Upper San Gabriel Valley Municipal Water District vs. City of Alhambra*, Los Angeles County Superior Court Case No. 924128. (See Appendix C-1). Under this Remedial Standard water wells used for remedial action purposes shall be located, with the approval of the Watermaster, both to prevent migration of contaminated groundwater and to best integrate the water produced for remedial action with water supply operations in the Basin. If necessary, WQA will engage the existing implementation and enforcement procedures of the Watermaster to carry out this Remedial Standard. Section 28 of the Watermaster Rules and Regulations is attached as Appendix D-1 and incorporated herein.

2. LARWQCB DISCHARGE REQUIREMENTS

In furtherance of an objective of this §406 Plan to integrate cleanup activities with water supply operations, disposal of Basin water produced for remedial action purposes shall be carried out in conformance with discharge requirements issued by the LARWQCB and, if necessary, approved by the SWRCB. (See Appendix C-1). Under this Remedial Standard, Basin water produced and treated for remedial action purposes shall not be wasted and such water shall be put to the greatest reasonable and beneficial use of which it is capable. Conversely, the waste and unreasonable use or unreasonable method of use of such waters shall be prohibited. Additionally, under this Remedial Standard, Basin water produced and treated for remedial action purposes shall not be discharged to the environment except in conformance with discharge requirements issued by the LARWQCB.

The SWRCB and the LARWQCB are both subject to the requirements of the California State Constitution and California Water Code § 100 et seq. to promote the greatest reasonable and beneficial uses of the waters of the State and to prevent the waste and unreasonable use and unreasonable method of use of those waters. SWRCB's express statutory authority to prevent the waste and unreasonable use of water is set forth in Water Code § 275 which provides as follows:

"The department and board shall take all appropriate proceedings or actions before executive, legislative, or judicial agencies to prevent waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of water in this state"

The LARWQCB exists, pursuant to Water Code §§ 13200-13201, as a branch of the SWRCB. The LARWQCB exercises its authority to regulate discharges to promote the beneficial use of water and prevent waste through the issuance of waste discharge requirements. Waste discharge requirements are predicated upon the water quality control plan ("Basin Plan") that each regional board is required to promulgate according to Water Code § 13241. Water Code § 13263(a) requires each regional board to issue discharge permits in conformity with its adopted Basin Plan.

Discharge requirements issued by the LARWQCB must be conditioned, taking into consideration the beneficial use of water, pursuant to Water Code § 13263(a), as follows:

"The regional board, after any necessary hearing, shall prescribe requirements as to the nature of any proposed discharge, existing discharge, or material change in an existing discharge, except discharges into a community sewer system, with relation to the conditions existing in the disposal area or receiving waters upon, or into which, the discharge is made or proposed. The requirements shall implement any relevant water quality control plans that have been adopted, and shall take into consideration the beneficial uses to be protected, the water quality objectives

reasonably required for that purpose, other waste discharges, the need to prevent nuisance, and the provisions of Section 13241."

Thus, in enacting Water Code §§ 13241 and 13263, the State has expressly stated its intent that the regional boards exercise their authority to regulate discharges to promote the beneficial use of water and prevent waste through the issuance of waste discharge requirements. Pursuant to the express terms of these statutes, this authority includes the prohibition on any discharge that is wasteful and does not promote the beneficial use of water.

The State has been approved to issue National Pollutant Discharge Elmination System ("NPDES") Program permits under the Federal Clean Water Act. Under that authority, the LARWQCB issued General NPDES Permit No. CAG914001 (the "General Permit"), adopted by Order No. R4-2002-0107 on May 23, 2002. The General Permit establishes Waste Discharge Requirements for discharges of Treated Groundwater from Investigation and/or Cleanup of Volatile Organic Compounds Contaminated-Sites to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties. The General Permit prohibits, for example, the daily discharge of an effluent containing more than 4 ppb perchlorate (See General Permit, F (Effluent Limitations)).

The standards contained in the General Permit are ARARs. They were properly promulgated because they were adopted pursuant to the authority granted to the State under 40 CFR parts 122 and 123 and Section 402 of the Clean Water Act and other State authorities, including Water Code § 13263. The General Permit is generally applicable – it serves as a general NPDES permit and covers discharges to all surface waters in the Los Angeles Region (See General Permit, ¶23.). It is enforceable both administratively and through the Superior Court (See Water Code §§ 13300 et seq.). Finally, the General Permit standards are legally applicable or relevant and appropriate as state standards stricter than current federal standards. Thus, the standards set forth in the General Permit are ARARs.

If necessary, WQA will engage the implementation and enforcement procedures of SWRCB and LARWQCB to carry out this Remedial Standard. The applicable rules,

regulations and standards of SWRCB and LARWQCB are attached as Appendix D-2 and incorporated herein.

3. DHS WATER TREATMENT STANDARDS

In furtherance of an objective of this §406 Plan to integrate cleanup activities with water supply operations, water treatment for remedial action purposes shall be carried out in conformance with treatment standards for public drinking water systems adopted by the DHS (See Appendix C-3). Under this Remedial Standard, Basin water produced and treated for remedial action purposes shall not be wasted and such water shall be put to the greatest reasonable and beneficial use of which it is capable. Conversely, the waste and unreasonable use or unreasonable method of use of such waters shall be prohibited. Under authority of §106 of the California Water Code, domestic use is the highest beneficial use of water. Unless discharge or other use of the Basin water produced and treated for remedial action purposes is approved by the LARWQCB, all such water shall be made available for domestic use through public drinking water systems. Under this Remedial Standard, Basin water produced for remedial action, with the approval of the DHS, shall be integrated into water supply operations in the Basin.

The California Safe Drinking Water Act (Health & Safety Code §§ 116275 et seq.) (the "Act"), contains public water supply permitting provisions which authorize DHS to set permit conditions for water delivered by public water systems. In Section 116270(e) of the Act, the Legislature declared its intent to "ensure that the water delivered by public water systems of this state shall at all times be pure, wholesome. and potable." In addition, in Section 116270(g) of the Act, the Legislature declared its intent "to establish a drinking water regulatory program within the State Department of Health Services in order to provide for the orderly and efficient delivery of safe drinking water within the state and to give the establishment of drinking water standards and public health goals greater emphasis and visibility within the state department."

In 1997, the Chief of the Division of Drinking Water and Environmental Management of the DHS drafted a "Guidance for Direct Use of Extremely Impaired Sources" memorandum known as Policy Memo 97-005 ("Policy 97-005"). According to

Policy 97-005, it is a memorandum that provides guidance to DHS staff on the evaluation of extremely impaired sources of water for use as a supply of drinking water.

Pursuant to Policy 97-005, the following findings are required of DHS for approval to use an extremely impaired source ¹:

- 1) Drinking water MCLs and Action Levels² will not be exceeded if the permit is complied with; and
- (2) The potential for human health risk is minimized, and the risk associated with the project is less than or equal to the alternatives.

As set forth in Appendix C-2, the permit conditions in Policy 97-005 will be considered state ARARs if (1) they are more stringent than federal standards (2) they are properly promulgated standards, requirements, criteria or limitations, and (3) they are legally applicable or relevant and appropriate. The Policy 97-005 permit requirements are more stringent than federal standards. The requirements were "properly promulgated" because they are based on laws adopted by the California Legislature and administrative standards developed by the DHS. Finally, they are of general applicability to anyone who introduces water from extremely impaired sources into the drinking water system. Thus, the permit conditions in Policy 97-005 are ARARs.

If necessary, WQA will engage the implementation and enforcement procedures of the DHS to carry out this Remedial Standard. A copy of Policy 97-005 and the applicable rules, regulations and standards of DHS are attached as Appendix D-3 and incorporated herein.

An extremely impaired source, according to Policy 97-005, is one that meets one or more of the following criteria: 1) exceeds 10 times an MCL or action level (AL) based on chronic health effects, 2) exceeds 3 times an MCL or AL based on acute health effects, 3) is a surface water that requires more than 4 log *Giardial5* log virus reduction, 4) is extremely threatened with contamination due to proximity to known contaminating activities. 5) contains a mixture of contaminants of health concern or 6) is designed to intercept known contaminants of health concern.

C. OVERARCHING REMEDIAL PRINCIPLES

These principles represent the general guidelines that will steer the implementation of the strategies and tactics contained in this §406 Plan.

- 1. Consensual participation in remedial activities shall be maximized.
- Consistency with EPA actions and Watermaster Section 28 shall be maintained.
- 3. Control of decisions by the local public (i.e., producers and the water consumers/rate payers they represent) affecting groundwater quality and water supplies shall be maintained.
- 4. Expedite remedial activities, as appropriate, by providing incentives, such as (a) avoiding litigation costs and risks (e.g. adverse judgment, exposure to other PRPs/agencies, etc.), (b) providing funds from federal, state, the WQA or other sources, and (c) utilizing existing water producing/treatment equipment, where appropriate.
- 5. The overall economic impact to water consumers shall be minimized for all response actions by requiring financial participation from any party responsible for the contamination. Within the discretion of the WQA, a cost recovery action, including but not limited to a request for joint and several liability, will be initiated against any responsible party not participating at a financial level acceptable to WQA.
- 6. WQA shall facilitate the acceleration of the removal of contaminant mass in the Basin by working with the EPA, water purveyors and PRPs to (a) identify high priority cleanup projects that are consistent with EPA objectives, and (b) begin implementation of the required remedy as soon as possible. Cleanup projects that prevent or otherwise restrict the lateral or vertical migration of contamination shall be given higher ranking over those cleanup projects that do not prevent such migration.
 - 7. Treated water shall be used for its highest and best use.

D. OPERABLE UNIT SPECIFIC PLANS

After more than 10 years of studies and investigations, EPA's CERCLA activities have progressed to a point where the configuration of the required remedies, in conjunction with local needs, can be determined. In general, these remedies include multiple groundwater extraction and treatment facilities designed to remove and contain

the spread of contamination. Appendix A summarizes WQA's specific plans for the individual operable units including key components and OU specific issues. Table 1 identifies the annual estimated costs of each project within the Basin OU boundaries through FY 2009-10.

VI. Funding

The WQA has and continues to be committed to accelerating cleanup, integrating cleanup with water supply, preventing migration, and minimizing the financial impact to the public through its annual assessment. In order to meet these goals, adequate funds, primarily from PRPs, state and/or federal programs, are necessary for implementation. While the WQA recognizes that PRPs must fulfill their CERCLA liabilities, it is often a very slow process - a process that jeopardizes the time and cost of implementing projects. In addition, even though EPA has urged PRPs to consider affected water supplies, the CERCLA process does not allow EPA to require it. It is for these reasons that WQA is determined to aggressively seek funds from PRPs before, during and after project implementation, either voluntarily, through mandated CERCLA actions or through litigation measures. If funds cannot be generated from PRPs to begin an identified early action project, WQA will work with individual purveyors, Watermaster and/or other local agencies to develop funding for the project using federal and/or state funds, WQA member agency funds, including individual purveyors, and only if necessary, its own assessment. This section prioritizes each potential source of funding in the order of which it will be sought for a particular early response action.

A. POTENTIALLY RESPONSIBLE PARITIES

As stated previously, WQA will seek voluntary funds from those responsible for the contamination. If the process of acquiring those funds is unilaterally stalemating or delaying the project, the WQA will move forward without this source of funds to ensure necessary cleanup/water supply projects are implemented.

The WQA is committed to securing PRP funding for any given project by providing incentives for PRPs to participate financially. In the absence of sufficient PRP funds, WQA and others may be required to combine its resources to fund a project. In

this event, WQA may choose to initiate cost recovery actions. This was the case in the BPOU, in which WQA brought two separate legal actions against PRPs in the year 2000 to recover costs incurred from the La Puente Valley County Water District ("LPVCWD") Treatment Plant and the Big Dalton Well Treatment Facility.

In 2002, WQA along with three affected purveyors (water entities) jointly settled with 13 of the more that 60 PRPs in the South El Monte Operable Unit. Thereafter, the water entities initiated litigation against the remaining PRPs in a concerted effort to recover escalating costs and ensuring funds for future operations of the cleanup projects built with WQA participation.

B. FEDERAL GOVERNMENT

WQA, with the support and assistance of other local agencies, has sought and continues to seek all funding that may be available for projects in the Basin. As a result of those efforts, two federal programs have been authorized by Congress specifically for the Basin. Both of these reimbursement programs are administered through the United States Bureau of Reclamation ("USBR") directly to the WQA. In February of 2001, WQA adopted a set of procedures called the Federal Funding Program Administration (Appendix F) to guide the allocation process for both programs.

Both sources of federal funding will be used to the maximum extent possible to accelerate cleanup and to provide incentives for PRPs to address affected water suppliers while implementing cleanup actions in the Basin under CERCLA.

C. RESTORATION FUND (DREIER)

In December of 2000, Congress authorized the San Gabriel Basin Restoration Fund ("Restoration Fund"). The authorization of the Restoration Fund, when fully appropriated, will provide \$75 million for groundwater cleanup in the Basin. Since that time, a total of \$55 million has been appropriated and allocated to cleanup projects throughout the Basin.

This program requires a 35% non-federal match deposited into the Restoration Fund to reimburse the WQA up to a maximum of 65% from federal sources. Non-federal funds are classified as funds that are not from the Department of the Interior, but

rather PRP funds, state funds, local municipality funds, purveyor funds, WQA assessment funds or non-profit funds. Funds from this program may be used for design, construction and operation & maintenance for up to 10 years following construction. The Restoration Fund is administered via the USBR in conjunction with the WQA for use within the Basin.

Congress acknowledged that millions of dollars had already been spent to protect the Basin groundwater by remediating groundwater contamination and preventing further contamination. Due to the emergency nature of the contamination and the threat it posed to the local groundwater supply, Congress allowed the use of those past expenditures as a credit towards the 35% non-federal matching requirement under this program. The USBR is responsible for approving all qualifying prior expenditures. However, the WQA, at its discretion, will use this credit to meet the 35% matching requirement and eliminate the need to deposit additional funds into the Restoration Fund.

As of 2002, WQA has accumulated past cleanup cost information totaling more that \$47 million. This amount is sufficient to meet the 35% non-federal matching requirement for the \$55 million appropriated by Congress and deposited into the Restoration Fund to date. Based on more recent information, it is clear that additional funding will be required to continue the progress of ensuring that remedial activities will be combined with local water supply needs. To this end, in 2005, the WQA will seek an additional \$15 million appropriation for the Restoration Fund. Additionally, the WQA will seek to raise the cap on the Restoration Fund by \$50 million.

D. TITLE XVI

In 1992, Congress authorized the San Gabriel Basin Demonstration Project to implement conjunctive use projects in the Basin. By implementing cleanup projects that provide a reliable source of water and reduce the need for outside sources of water, many of the Basin's cleanup projects are eligible for this program.

This program requires a 75% match from non-federal sources to reimburse the project up to a maximum of 25% from federal sources. Funds from this program may

be used for design and construction only. The Title XVI fund is administered via the USBR directly to the WQA for use within the Basin.

Based on the Basin's enormous need for funds, the WQA will (1) continue to work to secure full appropriation of the remaining funds in the Title XVI authorization, and 2) work with Congress to seek legislation authorizing the transfer of any unobligated funds in the Title XVI program to the Restoration Fund.

In 2004, Congresswoman Grace Napolitano authored HR 1284 which was passed and signed into law. The legislation raised the cap on the Title XVI program by \$12 million. The total authorization for the Title XVI program is now \$50.5 million.

E. STATE GOVERNMENT

In 2000, voters passed Proposition 13, which authorized the Safe Drinking Water, Clean Water, Watershed Protection, Flood Protection Bond Act, which, in part, authorized \$7 million in funding assistance for groundwater cleanup programs.

Although the original intent of the language was to provide grant funds, the Department of Toxic Substances Control ("DTSC") has chosen to interpret the funding language to mean loan funds. To that end, DTSC established procedures in 2001 for a low interest 20-year loan. In response to DTSC's solicitation of applications, WQA applied for all of the funds on behalf of the Valley County Water District ("VCWD") Sub-Area 1 BPOU project and was awarded the entire amount.

As described in the previous federal funding sections regarding the Restoration Fund and Title XVI funds, a non-federal match is required in order to release the federal funds. While WQA will continue to work with PRPs to help meet that match, additional funds will be needed to release the millions of federal dollars dedicated to the Basin cleanup. To date, the State's participation in cleanup has been nominal. And in recognition that the State's budgetary crisis has led to a shortage of direct funding, the WQA will, instead, focus on securing bond funds such as the \$30 million through the recently passed Proposition 50, the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002. Unfortunately, the ability for WQA to compete for these funds has been hindered by Internal policies developed by the DTSC and the SWRCB. To resolve this barrier, the WQA will concentrate its efforts on legislative remedies.

Additionally, in order to augment the State's participation in groundwater cleanup, WQA will continue to work on having the \$7 million Proposition 13 loan forgiven.

F. WATER QUALITY AUTHORITY

WQA may impose an annual assessment for capital and operational costs not to exceed \$10 per acre-foot. In the past, it has been WQA's policy to utilize assessment dollars to provide incentives for PRPs to move forward on a given project. With the recent availability of significant federal funds, these funds will only be utilized if sufficient federal and/or state dollars are or will not be available in addition to PRP funds. If PRPs do not voluntarily provide funds to a project, then the WQA will, on a project-by-project basis, consider the use of assessment funds to underwrite the project costs with or without other local dollars. However, the WQA is committed to recovering its costs from non-participating PRPs at a later date, so that the cost to the local consumer will ultimately be minimized.

G. WATER PURVEYORS/CITIES/MEMBER AGENCIES/OTHER LOCAL WATER AGENCIES

As of January 2001, all potential projects requesting WQA participation must go through WQA's Procedure No. 38, "WQA Project Participation". As part of that procedure, the WQA requires the impacted water purveyor to fund or secure funds other than WQA's assessment representing a minimum of 25% of capital costs. In the event projects cannot be otherwise fully funded using any or all of the above funding sources, WQA will work with an affected city, member water agency and/or other local water agencies to develop potential funding sources. The WQA will pursue the recovery of these funds on behalf of the participating agency, if necessary.

VII. Public Information

The WQA has succeeded over a number of years in building public support for cleaning up contaminated groundwater in the Basin. The public information program will continue to build on that effort to foster understanding of the WQA's mission, projects and accomplishments and plans, and to encourage public participation in the cleanup process. The WQA will undertake efforts to ensure that all stakeholders,

including the general public, understand projects that involve the WQA and have ample opportunity to contribute ideas and opinions.

The program will employ a variety of methods to reach everyone from specialized audiences, such as the local water community and legislators in Sacramento and Washington, to the general public in the Basin and beyond. The WQA will constantly update its web site to provide instant access to public information, including news releases, publications, agendas, minutes of meetings, and reports on projects. In addition to WQA-specific issues, the WQA web site links to local, state and federal water agencies and organizations, giving the public immediate access to information on many local water issues, including groundwater contamination and cleanup activities. It also gives access to the names of officials who can be contacted for further information.

The WQA will work to keep the local offices of federal and state legislators informed of any developments and the progress of water cleanup issues in the Basin. These efforts will include office visits, tours of treatment facilities and an invitation to participate in the WQA legislative committee. The WQA has continued to host the Legislative Water Forum Luncheon in which local legislators are invited to provide updates on state legislation as it pertains to the Basin water community. Speakers in the series to date have included United States Senator's Barbara Boxer and Dianne Feinstein, Congressman David Dreier, Congresswoman Hilda Solis, Congresswoman Lucille Roybal-Allard and Assemblywoman Judy Chu.

The public information program uses a variety of written publications to carry its message. These may include annual reports, brochures, bulletins for specific projects and periodic news inserts in the *San Gabriel Valley Tribune*, *Pasadena Star News* and the *Whittier Daily News*, which are all published by the Los Angeles News Group. The inserts are distributed throughout the Basin, through home and business delivery and general sales of the Los Angeles News Group. The WQA will continue to provide the public with the latest information on its projects and programs

The WQA will continue to work closely with the news media and other organizations to reach the public. It will distribute press releases, contact and meet with reporters and editors to inform them of activities respond to press inquiries and take other steps to encourage media interest. The WQA will continue to work with major

news outlets, such as the Los Angeles News Group, Los Angeles Times, and foreign language publications, such as La Opinion and the Chinese Daily News. It also will continue to provide information to other local newspapers, city and chambers of commerce newsletters and publications directed at water and environmental interests, the business press and the electronic media.

The WQA Board, through a variety of means, including public meetings and workshops, also interacts with the public to provide information and to solicit input. In addition, the WQA will continue to work with other agencies on information projects and participate with other water agencies on public outreach efforts.

All projects involving WQA will follow an established process, including all applicable federal, state and local regulations. Because the Basin is a Superfund site, the process will always include meeting requirements under the NCP, including its public participation component, in order to ensure maximum cost recovery potential. In addition, whenever needed or requested, WQA will work closely with water purveyors to help them meet the extensive public outreach requirements set forth in the DHS Technical Memorandum 97-005. However, absent regulatory requirements, the WQA continues to be committed to informing the public of all of its activities.

VIII. Coordination with Other Agencies

The WQA was created to fulfill a need to coordinate response actions to the contamination in the Basin. The WQA continues to call for the involved federal, state, and local agencies to unite with all stakeholders to work more effectively and efficiently. Stakeholders include but are not limited to the EPA, the USBR, the DTSC, the SWRCB, the LARWQCB, the DHS, the WQA, the Watermaster, cities affected by the Basin groundwater contamination, water purveyors in the Basin, and PRPs.

IX.Litigation Plan

The WQA Act authorizes the WQA to bring legal action, including against responsible parties to recover from them the response costs incurred in connection with removal and remedial actions in the Basin.

Among other claims the WQA can assert for cost recovery, the WQA may bring suit under CERCLA, which provides that any person or entity who owns or operates a facility from which there has been an actual or threatened release of a hazardous substance which has caused the WQA to incur response costs, is liable for the costs of response. Liability similarly is imposed on persons and entities, among others, who previously owned or operated a facility at the time such hazardous substance(s) were released.

CERCLA further allows the WQA to seek to hold all PRPs jointly and severally liable for these response costs, recover prejudgment interest, and obtain a declaration from the court that the responsible parties are liable for future response costs. In addition, the WQA may seek to recover its attorneys' fees incurred in bringing legal action. A more detailed discussion of the WQA's legal options is included in Legal Appendix C- 3.

APPENDIX I.1 Metropolitan's Historic Sources of Supply

Table A. 2-1 Sources of Water Supply in the Metropolitan Service Area

		(Acre-	Feet)		
Calendar Year	Local Supplies	L.A. Aqueduct	Colorado River Aqueduct2	State Water Project3	Total
1976	1,366,000	430,000	730,000	638,000	3,164,000
1977	1,370,000	275,000	1,215,000	209,000	3,069,000
1978	1,253,000	472,000	639,000	576,000	2,940,000
1979	1,419,000	493,000	746,000	532,000	3,189,000
1980	1,452,000	515,000	727,000	560,000	3,254,000
1981	1,500,000	465,000	707,000	827,000	3,499,000
1982	1,392,000	483,000	425,000	737,000	3,037,000
1983	1,385,000	519,000	580,000	410,000	2,893,000
1984	1,621,000	516,000	1,093,000	498,000	3,729,000
1985	1,535,000	496,000	1,232,000	728,000	3,991,000
1986	1,510,000	521,000	1,251,000	756,000	4,038,000
1987	1,465,000	428,000	1,211,000	763,000	3,867,000
1988	1,521,000	369,000	1,164,000	957,000	4,012,000
1989	1,542,000	288,000	1,125,000	1,215,000	4,170,000
1990	1,482,000	106,000	1,119,000	1,458,000	4,164,000
1991	1,441,000	186,000	1,180,000	625,000	3,432,000
1992	1,533,000	177,000	1,097,000	744,000	3,551,000
1993	1,428,000	289,000	1,133,000	663,000	3,515,000
1994	1,549,000	133,000	1,228,000	845,000	3,755,000
1995	1,615,000	464,000	897,000	451,000	3,428,000
1996	1,749,000	425,000	1,157,000	663,000	3,994,000
1997	1,745,000	436,000	1,166,000	724,000	4,072,000
1998	1,715,000	467,000	905,000	521,000	3,608,000
1999	1,875,000	309,000	1,036,000	792,000	4,011,000
2000	1,761,000	255,000	1,181,000	1,473,000	4,670,000
2001	1,711,000	267,000	1,209,000	1,119,000	4,307,000
2002	1,708,000	179,000	1,162,000	1,415,000	4,464,000
2003	1,659,000	252,000	639,000	1,561,000	4,111,000
2004	1,622,000	203,000	705,000	1,802,000	4,332,000
2005	1,587,000	369,000	670,000	1,525,000	4,151,000
2006	1,711,000	379,000	478,000	1,695,000	4,262,000
2007	1,853,000	129,000	576,000	1,648,000	4,307,000
2008	1,853,000	147,000	869,000	1,037,000	3,906,000
2009	1,801,000	137,000	1,043,000	908,000	3,890,000
Est. 2010	1,830,000	243,000	1,150,000	1,500,000	4,723,000

Table A. 2-2

Historic Metropolitan Water Deliveries to Member Agencies

			(Acre-Feet)							
Agency	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
City of Anaheim	24,503	16,063	22,576	21,327	26,357	32,766	24,725	21,182	15,977	20,819
City of Beverly Hills	13,940	13,166	13,787	12,286	12,355	12,016	12,317	12,463	12,292	10,771
City of Burbank	11,503	12,206	12,236	13,628	13,103	14,840	16,111	13,247	14,879	11,554
Calleguas Municipal Water District	120,214	109,894	127,240	118,351	128,231	120,026	125,631	130,615	121,157	101,278
Central Basin Municipal Water District	128,496	108,831	96,816	61,529	117,071	66,564	113,536	84,807	55,306	53,289
City of Compton	3,760	3,964	2,842	3,160	3,011	3,675	3,570	3,063	1,990	2,200
Eastern Municipal Water District	86,264	79,663	101,405	90,476	115,054	113,336	126,317	126,712	108,981	96,115
Foothill Municipal Water District	12,417	11,351	13,408	12,725	14,329	11,769	11,800	12,049	9,932	10,204
City of Fullerton	7,262	8,066	12,706	9,759	17,272	17,850	19,676	10,661	8,450	11,286
City of Glendale	29,237	28,459	22,830	22,838	24,180	22,479	22,324	22,748	21,406	18,655
Inland Empire Utilities Agency	69,785	66,515	76,218	81,294	83,848	92,592	112,398	75,290	58,016	36,496
Las Virgenes Municipal Water District	22,661	21,018	23,205	21,657	26,102	20,909	23,316	26,473	26,738	20,608
City of Long Beach	44,491	43,764	43,161	49,205	47,944	51,264	42,634	36,447	35,205	32,956
City of Los Angeles	330,021	304,345	403,293	318,237	392,196	184,346	185,104	441,293	429,594	352,368
Municipal Water District of Orange County	320,979	263,686	340,031	278,378	297,382	303,336	318,756	269,938	234,138	211,263
City of Pasadena	24,212	18,779	29,053	22,763	24,251	21,082	24,125	25,123	24,407	19,891
San Diego County Water Authority	592,641	588,405	662,442	650,756	677,385	546,217	597,118	697,353	565,319	539,658
City of San Fernando		0	372	519	500	596	207	901	0	0
City of San Marino	760	474	511	941	1,851	1,138	1,823	907	1,049	544
City of Santa Ana	10,970	12,631	19,336	13,349	20,459	21,693	21,811	11,650	7,934	6,986
City of Santa Monica	12,122	11,535	12,828	13,835	14,401	12,657	13,169	13,033	12,292	11,686
Three Valleys Municipal Water District	81,800	70,710	93,165	82,498	85,848	68,913	68,415	74,050	67,986	58,293
City of Torrance	20,628	22,012	21,375	20,860	20,665	20,825	21,273	20,136	19,064	18,231
Upper San Gabriel Valley Municipal Water District	59,955	30,600	54,326	72,214	45,160	44,917	47,937	23,243	12,642	5,891
West Basin Municipal Water District	151,076	140,739	147,020	144,567	147,319	145,075	144,446	141,674	130,424	120,302
Western Municipal Water District of Riverside County	85,498	82,158	98,972	96,686	106,042	91,324	103,332	120,648	99,654	88,869
Managoriera facili in the state of the state	2,253, 025	2,059,033	3,454,165	3,233,335	2,362,319	2,042,204	2,201,869	2,415,705	2,004,820	(0.360, 340

APPENDIX I.2 Metropolitan's Supply Capability Tables

Table 2-6

Metropolitan Regional Water Demands Single Dry Year (Acre-Feet)

	(Acre-Feet)				
	2015	2020	2025	2030	2039
was specifically device the second of the se					V6,179,00
Total Demands (1) (1)	5,540,000	5,749,000	5,896,000	NAMES OF THE PERSON OF THE PER	RESERVED AND AND
Retail Municipal and Industrial	5,026,000	5,227,000	5,379,000	5,534,000	5,673,00
Retail Agricultural	267,000	238,000	215,000	201,000	196,00
Seawater Barrier	69,000	70,000	71,000	71,000	71,00
Groundwater Replenishment	178,000	214,000	231,000	230,000	230,00
Total Conservation	931,000	966,000	1,033,000	1,098,000	1,159,00
Existing Active (through 2008) ²	87,000	38,000	10,000	1,000	
Code-based and Price-Effect	595,000	678,000	773,000	847,000	909,00
Pre-1990 Conservation	250,000	250,000	250,000	250,000	250,00
SDC/ / Water Conservation	190,000	380,000	380,000	380,000	380,00
20x2020 Retail-Level Compliance	190,000	380,000	380,000	380,000	380,00
Total Local Supplies	2.358,000	2.519,000	2,580,000	2,628,000	2,650,00
Groundwater	1,474,000	1,486,000	1,495,000	1,518,000	1,519,00
Surface Water	109,000	108,000	108,000	108,000	108,00
Los Angeles Aqueduct	66,000	66,000	66,000	66,000	66,00
Seawater Desalination	56,000	56,000	56,000	56,000	56,00
Groundwater Recovery	111,000	124,000	135,000	143,000	150,00
Total Recycling	355,000	400,000	434,000	450,000	464,00
Other Imported Supplies	187,000	279,000	287,000	287,000	287,00
	2,061,000	1,884,000	1,903,000	1,931,000	1,981.00
Total Metropolitan Demands (E=A-8-C-D)				4 767 000	1,818,00
Total Metropolitan Demands (E-A B-C D) Full Service (Tier I and Tier II)	1,922,000	1,719,000	1,726,000	1,767,000	1,010,0
Full Service (Tier I and Tier II)	Charles and the Control of the Contr	1,719,000 165,000	1,726,000 177,000	1,767,000	
The state of the s	1,922,000				164,00

Motes

All units are acre-feet unless specified, rounded the nearest thousand.

Totals mag not sum due to rounding.

- Growth projections are based on SCAG 2008 Regional Transportation Plan and SANDAG 2006 2030 Forecast.
- Includes code-based, price-effect and existing active savings through 2008; does not include future active conservation savings. 1990 is base year.
- ¹ Replenishment Service as defined in MWD Administrative Code Section 4114. Replenishment service includes direct and in-fieu replenishment.
- 1 IAWP deliveries will be phased out by 2013
- Firm demand on Metropolitan equals Full Service demands plus 70% of the Interim Agricultural Water Program demands

Table 2-7

		Multiple Dry Year				
		(Acre-Feet)			2222	202
- 10		2015	2020	2025	2030	203
SHA I	Total Demands	5,542,000	5,779,000	5,948,000	6,090,000	6,226,00
SHOW THE REAL PROPERTY.	Retail Municipal and Industrial	5,029,000	5,266,000	5,437,000	5,593,000	5,736,00
	Retail Agricultural	268,000	240,000	217,000	201,000	194,00
	Seawater Barrier	69,000	69,000	70,000	71,000	71,00
	Groundwater Replenishment	176,000	203,000	225,000	225,000	225,00
W. W. W.	Total Conservation	931,000	956,000	1,033,000	1,098,000	1,159,00
	Existing Active (through 2008) ²	87,000	38,000	10,000	1,000	
	Code-based and Price-Effect	595,000	678,000	773,000	847,000	909,00
11	Pre-1990 Conservation	250,000	250,000	250,000	250,000	250,00
	SBr/-7 Water Conservation	190,000	380,000	380.000	380,000	380,00
	20x2020 Retail-Level Compliance	190,000	380,000	380,000	380,000	380,00
ili wa Marika	AND REAL WORLD CO. CO. C.	2 347,000	2.534,000	2.603,000	2,643,000	- 2,672,00
2.5	Total Local Supplies	1,486,000	1,516,000	1,528,000	1,535,000	1,539,00
	Groundwater	102,000	102,000	101,000	101,000	101,00
	Surface Water	63,000	67.000	71,000	75,000	78.0
	Los Angeles Aqueduct Seawater Desalination	56,000	56,000	56,000	56,000	56,00
	Groundwater Recovery	108,000	121,000	133,000	142,000	149,0
	그리 [그리고 [] 그	346.000	392,000	427,000	447,000	462,0
	Total Recycling Other Imported Supplies	187,000	279,000	287,000	287,000	287,0
	Total Metropolitan Demands (T-A-B-C-D)	2.073.000	1,899,000	1,932,000	1,969,000	2,015,0
	Full Service (Tier I and Tier II)	1,932,000	1,766,000	1,784,000	1,821,000	1,869,0
	Replenishment Service ³	114,000	133,000	148,000	148,000	145,0
	Interim Agricultural Water Program ⁴	27,000	0	0	0	5
	Firm Demands on Metropolitan ⁵	1,950,900	1.766.000	1.784.000	1.821.000	1.869.00

Notes:

All units are agre-feet unless specified, rounded the nearest thousand.

Totals may not sum due to rounding.

- Growth projections are based on SCAG 2008 Regional Transportation Plan and SANDAG 2008 2030 Forecast.
- includes code-based, price-effect and existing active savings through 2008; does not include future active conservation savings. 1990 is base year.
- Replenishment Service as defined in MWD Administrative Code Section 4114. Replenishment service includes direct and in-lieu replenishment.
- 1 IAWP deliveries will be phased out by 2013
- Firm demand on Metropolitan equals Full Service demands plus 70% of the Interim Agricultural Water Program demands

TABLE 2-8

-	Regional Water Der	nands			
,	lverage Year				
	(Acre-Feet)				355
	2015	2020	2025	2030	203
Total Demands ¹	5,529,000	5,730,000	5,877,000	6,012,000	6,145,00
Retail Municipal and Industrial	5,004,000	5,204,000	5,355,000	5,509,000	5,647,0
Retail Agricultural	257,000	230,000	208,000	195,000	190,00
Seawater Barrier	69,000	70,000	71,000	71,000	71,00
Groundwater Replenishment	199,000	227,000	243,000	236,000	236,00
Total Conservation	931,000	966,080	1,033,000	1,098,000	1,159,0
Existing Active (through 2008) ²	87,000	38,000	10,000	1,000	
Code-based and Price-Effect	595,000	678,000	773,000	847,000	909,0
Pre-1990 Conservation	250,000	250,000	250,000	250,000	250,0
SBi-7-7-Water Conservation 20x2020 Retail-Level Compliance	190,000 190,000	380,000	380,000 380,000	380,000 380,000	380,0 380,0
Total Local Sepplies	2,515,000	2,677,000	2,743,000	2,779,000	2,802.0
Groundwater	1,467,000	1,480,000	1,492,000	1,501,000	1,502,0
Surface Water	115,000	113,000	113,000	113,000	113,0
Los Angeles Aqueduct	224,000	225,000	226,000	229,000	230,0
Seawater Desalination	56,000	56,000	56,000	56,000	56,0
Groundwater Recovery	111,000	124,000	135,000	143,000	150,0
Total Recycling	355,000	400,000	434,000	450,000	464,0
Other Imported Supplies	187,000	279,000	287,000	287,000	287,0
Total Metropolitan Demands (F=A-B-C-D)	1,893,000	1,707,000	1,721,000	1,755,000	1,804,0
Full Service (Tier I and Tier II)	1,728,000	1,524,000	1,526,000	1,566,000	1,615,0
Replenishment Service ³	165,000	183,000	195,000	189,000	189,0
Interim Agricultural Water Program	0_	. 0	0	0	

Notes:

All units are acre-feet unless specified, rounded the nearest thousand.

Totals may not sum due to rounding.

- 1 Growth projections are based on SCAG 2008 Regional Transportation Plan and SANDAG 2006 2030 Forecast.
- ² Includes code-based, price-effect and existing active savings through 2008; does not include future active conservation savings. 1990 is base year.
- 1 Replenishment Service as defined in MWD Administrative Code Section 4114. Replenishment service includes direct and in-lieu replenishment.
- 1 IAWP deliveries will be phased out by 2013
- Firm demand on Metropolitan equals Full Service demands plus 70% of the Interim Agricultural Water Program demands

Table 2-9

	Single D	ry-Year							
Suppl	y Capability ¹ and	d Projected Der	nands						
Repeat of 1977 Hydrology									
(acre-feet per year)									
Forecast Year	2015	2020	2025	2030	2035				
Curson Programs		(18.5) (19.9)							
In-Region Storage and Programs	637,000	892,000	1,046,000	931,000	796,00				
California Aqueduct ²	508,000	588,000	642,000	600,000	601,00				
Colorado River Aqueduct									
Colorado River Aqueduct Supply ³	1,407,000	1,815,000	1,675,000	1,425,000	1,425,00				
Aqueduct Capacity Limit ⁴	1,250,000	1,250,000	1,250,000	1,250,000	1,250,000				
Colorado River Aqueduct Capability	1,250,000	1,250,000	1,250,000	1,250,000	1,250,00				
Capability of Current Programs	2,395,000	2,730,000	2,938,000	2,781,000	2,647,000				
Denvidory as the second									
Firm Demands of Metropolitan	1,922,000	1,719,000	1,726,000	1,767,000	1,818,00				
IID-SDCWA Transfers and Canal Linings	180,000	273,000	280,000	280,000	280,00				
Total Demands on Metropolitan ⁵	2,102,000	1,992,000	2,006,000	2,047,000	2,098,000				
Surplus	293,000	738,000	932,000	734,000	549,000				
Project is Under Development		建设 公理观点	9 2 1 7 1 1						
In-Region Storage and Programs	34,000	34,000	34,000	34,000	34,00				
California Aqueduct	556,000	556,000	700,000	700,000	700,00				
Colorado River Aqueduct									
Colorado River Aqueduct Supply ³	206,000	206,000	191,000	186,000	186,00				
Aqueduct Capacity Limit ⁴	0	0	o	0					
Colorado River Aqueduct Capability	0	0	0	0					
Capability of Proposed Programs	590,000	590,000	734,000	734,000	734,00				
Potential Surplus	883,000	1,328,000	1,666,000	1,468,000	1,283,00				

¹ Represents Supply Capability for resource programs under listed year type.

² California Aqueduct includes Central Valley transfers and storage program supplies conveyed by the aqueduct

³ Colorado River Aqueduct includes water management programs, IID-SDCWA transfers and canal linings conveyed by the aqueduct.

⁶ Maximum CRA deliveries limited to 1.25 MAF including IID-SDCWA transfers and canal limings.

⁵ Firm demands are adjusted to include IID-SDCWA transfers and canal linings. These supplies are calculated as local supply, but need to be shown for the purposes of CRA capacity limit calculations without double counting.

Table 2-10

	Multiple l	Dry-Year							
Suppl	ly Capability ¹ and	d Projected Der	nands						
Repeat of 1990-1992 Hydrology									
(acre-feet per year)									
Forecast Year	2015	2020	2025	2030	2035				
Current Programs					建铁铁				
In-Region Storage and Programs	224,000	348,000	425,000	387,000	342,00				
California Aqueduct ²	741,000	790,000	832,000	808,000	809,00				
Colorado River Aqueduct									
Colorado River Aqueduct Supply ³	1,282,000	1,591,000	1,423,000	1,422,000	1,407,00				
Aqueduct Capacity Limit 4	1,250,000	1,250,000	1,250,000	1,250,000	1,250,000				
Colorado River Aqueduct Capability	1,250,000	1,250,000	1,250,000	1,250,000	1,250,00				
Capability of Current Programs	2,215,000	2,388,000	2,507,000	2,445,000	2,401,00				
Demaile			43.16						
Firm Demands of Metropolitan	1,951,000	1,766,000	1,784,000	1,821,000	1,869,00				
IID-SDCWA Transfers and Canal Linings	180,000	273,000	280,000	280,000	280,00				
Total Demands on Metropolitan ^s	2,131,000	2,007,000	2,064,000	2,101,000	2,149,000				
Surplus	84,000	381,000	443,000	344,000	252,00				
Programs Uniter Development	A. M.				自编集				
In-Region Storage and Programs	20,000	26,000	31,000	33,000	34,00				
California Aqueduct	242,000	273,000	419,000	419,000	419,00				
Colorado River Aqueduct									
Colorado River Aqueduct Supply ³	206,000	206,000	191,000	186,000	186,00				
Aqueduct Capacity Limit 4	0	0	0	0					
Colorado River Aqueduct Capability	. 0	0	0	0					
Capability of Proposed Programs	262,000	299,000	450,000	452,000	453,00				
Potential Surplus	346,000	680,000	893,000	796,000	705,00				

¹ Represents Supply Capability for resource programs under listed year type.

² California Aqueduct includes Central Valley transfers and storage program supplies conveyed by the aqueduct

³ Colorado River Aqueduct includes water management programs, IID-SDCWA transfers and canal linings conveyed by the aqueduct.

⁶ Maximum CRA deliveries limited to 1.25 MAF including IID-SDCWA transfers and canal linings.

⁵ Firm demands are adjusted to include IID-SDCWA transfers and canal linings. These supplies are calculated as local supply, but need to be shown for the purposes of CRA capacity limit calculations without double counting.

Table 2-11

	Averag								
Suppl	y Capability ¹ and	d Projected Den	nands						
Average of 1922-2004 Hydrologies									
(acre-feet per year)									
Forecast Year	2015	2020	2025	2030	2035				
Organic Programs	\$1,600		金排型数据						
In-Region Storage and Programs	637,000	892,000	1,046,000	931,000	796,00				
California Aqueduct ²	1,536,000	1,663,000	1,754,000	1,724,000	1,725,00				
Colorado River Aqueduct		11							
Colorado River Aqueduct Supply ³	1,498,000	1,520,000	1,478,000	1,438,000	1,435,00				
Aqueduct Capacity Limit ⁴	1,250,000	1,250,000	1,250,000	1,250,000	1,250,000				
Colorado River Aqueduct Capability	1,250,000	1,250,000	1,250,000	1,250,000	1,250,00				
Capability of Current Programs	3,423,000	3,805,000	4,050,000	3,905,000	3,771,000				
Democrats			建 期制度						
Firm Demands of Metropolitan	1,728,000	1,524,000	1,526,000	1,566,000	1,615,00				
IID-SDCWA Transfers and Canal Linings	180,000	273,000	280,000	280,000	280,00				
Total Demands on Metropolitan ⁵	1,908,000	1,797,000	1,806,000	1,846,000	1,895,00				
Surplus	1,515,000	2,008,000	2,244,000	2,059,000	1,876,00				
12 Marchus United 11 Weltin dont			40000000000000000000000000000000000000						
In-Region Storage and Programs	34,000	34,000	34,000	34,000	34,00				
California Aqueduct	378,000	383,000	715,000	715,000	715,00				
Colorado River Aqueduct									
Colorado River Aqueduct Supply ³	206,000	206,000	191,000	186,000	186,00				
Aqueduct Capacity Limit 4	0	0	0	0					
Colorado River Aqueduct Capability	0	0	0	0					
Capability of Proposed Programs	412,000	417,000	749,000	749,000	749,00				
Potential Surplus	1,927,000	2,425,000	2,993,000	2,808,000	2,625,00				

¹ Represents Supply Capability for resource programs under listed year type.

² California Aqueduct includes Central Valley transfers and storage program supplies conveyed by the aqueduct

³ Colorado River Aqueduct includes water management programs, IID-SDCWA transfers and canal linings conveyed by the aqueduct

⁴ Maximum CRA deliveries limited to 1.25 MAF including IID-SDCWA transfers and canal linings.

⁵ Firm demands are adjusted to include IID-SDCWA transfers and canal linings. These supplies are calculated as local supply, but need to be shown for the purposes of CRA capacity limit calculations without double counting.

used. In addition, the storage capability used in this evaluation reflects actual storage program conveyance constraints.

Table 3-1

Colorado River Aqueduct Program Capabilities Year 2030 (acre-feet per year)							
Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)				
	(1990-92)						
Current Programs	550,000	550,000	550,000				
Basic Apportionment – Priority 4	85.000	85,000	85,000				
IID/MWD Conservation Program	0.000	00,000	13,000				
Priority 5 Apportionment (Surplus)	v	v	13,000				
PVID Land Management, Crop Rotation,	122 000	133.000	133.000				
and Water Supply Program	133,000 5,000	5.000	133,000 5,000				
Lower Colorado Water Supply Project	400,000	400.000	400.000				
Lake Mead Storage Program	13,000	13,000	13.000				
Quechan Settlement Agreement Supply	_	(47,000)	(47,000				
Forbearance for Present Perfected Rights	(47,000)	(35,000)	(35,000				
CVWD SWP/QSA Transfer Obligation	(35,000)		(155,000				
DWCV SWP Table A Obligation	(77,000)	(60,000)	82.000				
DWCV SWP Table A Transfer Callback	41,000	32,000	73,000				
DWCV Advance Delivery Account	36,000	28,000	25,000				
Drop 2 Reservoir Funding	22,000	25,000 0	23,000				
SNWA Agreement	0		1,142,000				
Subtotal of Current Programs	1,126,000	1,129,000	1,172,000				
Programs Uniter Development		经国际价值					
Additional PVID Transfers (Crop Stressing/Fallowing)	66,000	66,000	66,000				
Arizona Programs - CAP	50,000	50,000	50,000				
California Indians / Other Ag	10.000	10,000	10,000				
ICS Exchange	25,000	25,000	25,000				
Expand SNWA Agreement	0	0					
Agreements with CVWD	35,000	35,000	35,000				
Hayfield Groundwater Extraction Project	0	0	(
Subtotal of Proposed Programs	186,000	186,000	186,000				
Additional Non-Metropolitan CRA Supplies	NAC NG 全物的						
SDCWA/IID Transfer	200,000	200,000	200,000				
Coachella & All-American Canal Lining							
To SDCWA	80,000	80,000	80,000				
To San Luis Rey Settlement Parties ¹	16,000	16,000	16,000				
Subtotal of Non-Metropolitan Supplies	296,000	296,000	296,000				
Maximum CRA Supply Capability ²	1,608,000	1,611,000	1,624,000				
Less CRA Capacity Constraint (amount above 1.25 MAF)	(358,000)	(361,000)	(374,000				
Maximum Expected CRA Deliveries ³	1,250,000	1,250,000	1,250,000				
Less Non-Metropolitan Supplies 4	(296,000)	(296,000)	(296,00				
Maximum Metropolitan Supply Capability ^S	954,000	954,000	954,000				

¹ Subject to satisfaction of conditions specified in agreement among Metropolitan, the United States, and the San Luis Rey Settlement Parties

² Total amount of supplies available without taking into consideration CRA capacity constraint.

³ The Colorado River Aqueduct delivery capacity is 1.250 MAF annually.

^{*} Exchange obligation for the SDCWA-IID transfer and the Coachella and All American Canal Lining projects.

⁵ The amount of CRA water available to Metropolitan after meeting its exchange obligations.

Since 2008, Metropolitan has provided Desert Water Agency and Coachella Valley WD written consent to take delivery from the SWP facilities non-SWP supplies separately acquired by each agency. These deliveries include water acquired from the Yuba Dry Year Water Purchase Program and the 2009 Drought Water Bank. Metropolitan has also consented to,

- 10 TAF of exchange deliveries to CVWD for non-SWP water acquired from the San Joaquin Valley from 2008 through 2010, and
- 36 TAF of exchange deliveries to DWA for non-SWP water acquired from the San Joaquin Valley from 2008 through 2015.

Table 3-2 summarizes Metropolitan's SWP supply range for 2030. In developing the program capabilities shown in this table, Metropolitan assumed a simulated median storage level going into year 2030 based on the balances of supplies and demands. Under the median storage condition, there is an estimated 50 percent probability that storage levels would be higher than the assumption used, and a 50 percent probability that storage levels would be lower than the assumption used. In addition, the supply capabilities shown reflect actual storage program conveyance constraints.

Table 3-2

California Aqueduct Program Capabilities Year 2030 (acre-feet per year)								
Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)					
Current Programs								
MWD Table A	469,000	107,000	1,026,00					
DWCV Table A	77,000	60,000	155,00					
San Luis Carryover 1	66,000	199,000	199,00					
Article 21 Supplies	0	0	52,00					
Yuba River Accord Purchase	0	0						
Subtotal of Current Programs	612,000	366,000	1,432,00					
Programs Under Development			思想的变形的					
Delta Improvements	341,000	628,000	605,00					
IRP SWP Target ²	0	0						
Subtotal of Proposed Programs	341,000	628,000	605,00					
Maximum Supply Capability	953,000	994,000	2,037,000					

¹ Includes DWCV carryover.

SWP Water Quality

Metropolitan requires a safe drinking water supply from the Bay-Delta to meet current and future regulatory requirements for public health protection. Finding cost-effective ways to reduce total

STATE WATER PROJECT 3-17

² Remaining supply needed to meet IRP target.

Table 3-3 summarizes Metropolitan's Central Valley transfer programs supply range for 2030. In developing the program capabilities shown in this table, Metropolitan assumed a simulated median storage level going into year 2030 based on the balances of supplies and demands. Under the median storage condition, there is an estimated 50 percent probability that storage levels would be higher than the assumption used, and a 50 percent probability that storage levels would be lower than the assumption used. The supply capabilities shown reflect actual storage program conveyance constraints. In addition, SWP supplies are estimated using the draft 2009 SWP Delivery Reliability Report distributed by DWR in December 2009. The draft 2009 reliability report presents the current DWR estimate of the amount of water deliveries for current (2009) conditions and conditions twenty years in the future. These estimates incorporate restrictions on SWP and Central Valley Project (CVP) operations in accordance with the biological opinions of the U.S. Fish and Wildlife Service and National Marine Fishery Service issued on December 15, 2008 and June 4, 2009, respectively.

Table 3-3

Yea	ject Storage and Ti y Projection ur 2030 eet per year)	ransfer Progran	ns
Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
Current Programs	The state of the s	到了一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	
San Bernardino Valley MWD Minimum Purchase	12,000	8,000	20,000
San Bernardino Valley MWD Option Purchase	12,000	11,000	29,000
Central Valley Storage and Transfers			
Semitropic Program	46,000	41,000	69,000
Arvin Edison Program	63,000	75,000	75,000
San Bernardino Valley MWD Program	16,000	49,000	49,000
Kern Delta Program	47,000	50,000	50,000
Subtotal of Current Programs	196,000	234,000	292,000
Programs Under Development	(48) (46)(68)		
Mojave Groundwater Storage Program	11,000	5,000	43,000
North of Delta/In-Delta Transfers	33,000	33,000	33,000
SBVMWD Central Feeder	5,000	5,000	5,000
Shasta Return	18,000	18,000	18,000
Semitropic Agricultural Water Reuse Demonstration	11,000	11,000	11,000
Subtotal of Proposed Programs	78,000	72,000	110,000
Maximum Supply Capability	274.000	306,000	402,000

SAN BERNARDINO VALLEY MWD STORAGE PROGRAM

The San Bernardino Valley MWD Storage program allows for the purchase of a portion of San Bernardino Valley Municipal Water District's State Water Project supply. The program includes a minimum purchase provision of 20 TAF and the option of purchasing additional supplies when available.

APPENDIX I.3 Metropolitan's WSAP Shortage Allocation Levels

Water Supply Allocation Plan



Revised June 2009



Metropolitan Water District of Southern California

Table 1: Shortage Allocation Index							
(a) Regional Shortage Level	(b) Regional Shortage Percentage	(c) Extraordinary Increased Production Percentage	(d) Wholesale Minimum Percentage	(e) Maximum Retail Impact Percentage	(f) IAWP Reduction		
1	5%	0%	92.5%	0.0%	30%		
2	10%	0%	85.0%	0.0%	30%		
3	15%	15%	77.5%	7.5%	40%		
4	20%	20%	70.0%	10.0%	50%		
5	25%	25%	62.5%	12.5%	75%		
6	30%	30%	55.0%	15.0%	90%		
7	35%	35%	47.5%	17.5%	100%		
8	40%	40%	40.0%	20.0%	100%		
9	45%	45%	32.5%	22.5%	100%		
10	50%	50%	25.0%	25.0%	100%		

- (a) Regional Shortage Levels: The formula allocates shortages of Metropolitan supplies over ten levels.
- (b) Regional Shortage Percentage: The total regional shortage is determined by dividing Metropolitan's available supplies by the sum of the Allocation Year Wholesale Demands and subtracting this amount from 1, presented as a percentage in five percent increments from five to 50.
- (c) Extraordinary Increased Production Adjustment: This adjustment accounts for extraordinary increases in local supplies in times of shortage above the base period, including such efforts as purchasing water transfers or overproducing groundwater yield. In order not to discourage these efforts, only a percentage of the yield from these supplies is added back to Allocation Year Local Supplies, as seen in Table 1. This has the effect of "setting aside" the majority of the yield for the agency who procured the supply.
- (d) Wholesale Minimum Allocation: The Wholesale Minimum Allocation ensures a minimum level of Metropolitan supplied wholesale water service to the member agencies equal to 100 percent of Allocation Year Wholesale Demand minus one-and-a-half times the Shortage Percent. The Wholesale Minimum Allocation ensures that member agencies will not experience shortages on the wholesale level that are greater than one-and-a-half times the Regional Shortage Percentage.
- (e) Maximum Retail Impact Adjustment: The purpose of this adjustment is to ensure that agencies with a high level of dependence on Metropolitan do not experience disparate shortages at the

APPENDIX I.4 Metropolitan's Water Shortage Actions

For shortage stages 1 through 4, Metropolitan will meet demands by withdrawing water from storage. At shortage stages 5 through 7, Metropolitan may undertake additional shortage management steps, including issuing public calls for extraordinary conservation, considering curtailment of Interim Agricultural Water Program deliveries in accordance with their discounted rates, exercising water transfer options, or purchasing water on the open market.

Figure 2-2 shows the actions under surplus and shortage stages when an allocation plan would be necessary to enforce mandatory cutbacks. The overriding goal of the WSDM Plan is to never reach Shortage Stage 7, an Extreme Shortage.

Surplus Stages Shortage Stages Extreme Shortage Severe Shortage Surplus Shortage 4 2 Actions Make Cyclic Deliveries Fill Central Valley Storage Make white the half Store Supplies in SWP Carryover Fill Conjunctive Use Fill DWR Flexible Storage Fill Diamond Valley Lake Conduct Public Affairs Program Take from Diamond Valley Lake Take from Central Valley Storage Interrupt Replenishment Deliverie and our photos had a product 241 Take from Conjunctive Use 2011年第10万月1日 (10万里) · 10万里 Mary Act School Take from DWR Flexible Storage Call for Extraordinary Conservation crown sower will the Reduce IAWP Deliveries Call Options Contracts **Buy Spot Water** Implement Allocation Plan

Figure 2-2
Resource Stages, Anticipated Actions, and Supply Declarations

At shortage stage 7 Metropolitan will implement its Water Supply Allocation Plan⁴ (WSAP) to allocate

Potential Simultaneous Actions

available supply fairly and efficiently to full-service customers.

WATER SUPPLY ALLOCATION PLAN

In February 2008 Metropolitan's Board adopted the WSAP. The WSAP includes the specific formula for calculating member agency supply allocations and the key implementation elements needed for administering an allocation.

The WSAP was developed in consideration of the principles and guidelines described in the WSDM Plan, with the objective of creating an equitable needs-based allocation. The WSAP formula seeks to balance

PLANNING FOR THE FUTURE

⁴Metropolitan Water District of Southern California, Water Supply Allocation Plan, June 2009.

APPENDIX J.1 2005 California Urban Water Conservation Council Annual Reports and Coverage Reports

Water Supply & Reuse

Reporting Unit:		Year:
Upper San Gabriel Valley MWD	2005	
Water Supply Source Information		
Supply Source Name	Quantity (AF) Supplied	Supply Type
Metropolitan Water District of Southern California	51951.8	Imported
Recycled Water	44.66	Recycled

Total AF: 51996.46

Purchaser Information

Name of Agency	Quantity (AF) Supplied	Retailer or Wholesaler
Southern California Water Company (USG-01)	1138.4	retail
South Pasadena, City of (USG-02)	209.2	retail
Suburban Water Systems (USG-04)	7315.7	retail
Watermaster/Alhambra, City of (USG-05)	2998	retail
Arcadia, City of (USG-06)	0	retail
Monrovia, City of (USG-07)	.8	retail
Azusa, City of (USG-08)	1110.3	retail
Valley County Water District (USG-09)	123	retail
Main San Gabriel Basin Watermaster (USG-03)	39056.5	wholesale
San Gabriel Valley Water Company (Recycled)	44.66	retail

Total AF: 51996.56

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit:

BMP Form Status:

Year:

Upper San Gabriel Valley MWD

100% Complete

2005

A. Implementation

1. Does your agency own or operate a water distribution system?

no

AGENCY DOES NOT OWN OR OPERATE A WATER DISTRIBUTION SYSTEM

BMP 07: Public Information Programs

Reporting Unit: BMP Form Status: Year: Upper San Gabriel Valley MWD 100% Complete 2005

A. Implementation

1. How is your public information program implemented?

Wholesaler implements program (none or minimal retailer participation)

2. Describe the program and how it's organized:

USGVMWD's maintains an active public information program to promote and educate water conservation. In addition to MWDSC's public information efforts, USGVMWD offers an array of conservation brochures, children's activity booklets, public outreach displays, oral presentations and workshops. Press releases and news ads are also used to highlight water efficient projects and to raise awareness about water conservation efforts. USGVMWD's annual WaterFest drew approximately 3,500 attendees. USGVMWD utilitizes the festival to reach out to the community and raise public awareness about water conservation, water quality, and other relvant water issues.

3. Indicate which and how many of the following activities are included in your public information program:

Region-Wide Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	yes	11
b. Public Service Announcement	no	
c. Bill Inserts / Newsletters / Brochures	yes	16
d. Bill showing water usage in comparison to previous year's usage	no	
e. Demonstration Gardens	no	
f. Special Events, Media Events	yes	6
g. Speaker's Bureau	yes	2
 h. Program to coordinate with other government agencies, industry and public interest groups and media 	yes	

B. Conservation Information Program Expenditures

1. Annual Expenditures (Excluding Staffing)

57199.84

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" No variant of this BMP?

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

BMP 08: School Education Programs

Reporting Unit:

BMP Form Status: 100% Complete

Year: **2005**

MWD

A. Implementation

Upper San Gabriel Valley

How is your public information program implemented?
 Wholesaler implements program (none or minimal retailer participation)

2. Please provide information on your region-wide school programs (by grade level):

Grade	Are grade- appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops			
Grades K-3rd	yes	0	0	0			
Grades 4th-6th	yes	0	0	0			
Grades 7th-8th	yes	0	0	0			
High School	yes	3	113	0			
4. Did your Agency's materials meet state education framework yes requirements?							
5. When did your	09/01/1992						
B. School Education Program Expenditures							
1. Annual Expend	104403.96						

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?

yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

USGVMWD is a member agency of the Metropolitan Water District of Southern California (MWDSC), which has an extensive education program that offers age/grade-appropriate materials to all schools within the MWDSC territory, including ALL schools within USGVMWD's boundaries. MWDSC provides an active school education program that promotes water conservation and water conservation related benefits. Its educational program includes working with school districts and private schools within its boundaries to: provide instructional assistance, educational materials, and classroom presentations that identify urban, agricultural, and environmental issues and conditions in the local watershed. MWDSC's educational materials meet state education framework requirements and are grade appropriate materials that are offered to all grade levels K - 12th. USGVMWD is a member agency of MWDSC, therefore, all schools within USGVMWD's boundaries are covered under MWDSC's educational program, making it 100% as effective as BMP 8 in ensuring a viable education program with no direct cost contribution from USGVMWD. Since the educational program is handled by MWDSC, it is MWDSC who documents and reports on: a) Number of school presentations made during reporting period. b) Number

and type of curriculum materials developed and/or provided by water supplier, including confirmation that curriculum materials meet state education framework requirements and are grade-level appropriate. c) Number of students reached. d) Number of in-service presentations or teacher's workshops conducted during reporting period. e) Annual budget for school education programs related to conservation. In addition to MWDSC's educational program, USGVMWD directly offered the following school education programs: ~ Water Awareness Art Contests: In an effort to raise awareness of water issues among children, USGVMWD sponsors an annual poster art contests for grades K - 3rd and 4th - 6th. The five winning posters for each category receive monetary awards and are printed into sheets of stickers. These 10 winning posters are then submitted as USGVMWD's entries in MWDSC's poster art contest. USGVMWD also sponsors a t-shirt art contest for grades 7th - 12th in which the top five selections receive monetary awards, with the top two designs printed onto t-shirts and the top five entries submitted to MWDSC's upper grade art contest. A total of 126 entries were received for the FY 04-05 art contest. ~ Solar Cup Competition: USGVMWD sponsored four high school teams in MWDSC's Solar Cup Competition, which provides high school students the opportunity to build solar powered boat that compete in race and endurance categories. The program offers student participants an opportunity to learn about natural resources, the development/use of alternative fuel sources and protection of water quality. ~ Water Education Grant Program: USGVMWD kicked off a water education grant program that offers teachers and/or schools within the District boundaries grants of up to \$1,000 to fund water-related educational projects. Seven (7) grants, totaling \$5,745 were funded for the FY 04-05. The projects are estimated to impact over 340 students from grades K-12. ~ Water Resource Library: USGVMWD also maintains an onsite library offering a variety of current water education materials for all ages. Resources available for loan include activity books, textbooks, videotapes and computer software. These educational resources are different than the materials offered through MWDSC's educational program, giving local schools access to a wider range of water education resources.

D. Comments

BMP 10: Wholesale Agency Assistance Programs

Reporting Unit:

BMP Form Status:

Year:

Upper San Gabriel Valley MWD

100% Complete

2005

No

A. Implementation

1. Financial Support by BMP

ВМР 1	Financial Incentives Offered? No	Budgeted Amount	Amount Awarded	вмР 8		Budgeted Amount	
2	No			9	No		
3	No			10	No		
4	No			11	No		
5	No			12	No		
6	No			13	No		
7	No			14	No		

2. Technical Support

a. Has your agency conducted or funded workshops addressing CUWCC procedures for calculating program savings, costs and cost-effectiveness?	No
 b. Has your agency conducted or funded workshops addressing retail agencies' BMP implementation reporting requirements? 	No
c. Has your agency conducted or funded workshops addressing:	
1) ULFT replacement	No
2) Residential retrofits	No
3) Commercial, industrial, and institutional surveys	No

4) Residential and large turf irrigation

3. Staff Resources by BMP

ВМР	Qualified Staff Available for BMP?	No. FTE Staff Assigned to BMP	ВМР	Qualified Staff Available for BMP?	No. FTE Staff Assigned to BMP	
1	No		8	No		
2	No		9	No		
3	No		10	yes	1	
4	No		11	No		
5	No		12	No		
6	No		13	No		
7	No		14	No		

4. Regional Programs by BMP

вмР	Implementation/ Management Program?	вмР	Implementation/ Management Program?
1	No	8	yes
2	No	9	yes
3	No	10	yes
4	No	11	No
5	No	12	yes
6	yes	13	yes

B. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?

yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

Residential High Efficiency Clothes Washers (HECW) Rebate Program -The Upper DistrictÃs Residential High Efficiency Clothes Washer (HECW) Rebate Program provides rebates to residential customers within the District boundaries, for the purchase and installation of a qualifying HECW. This rebate provides a much-needed incentive to encourage consumers to select HECWs over the lower-costing, less-efficient models of washers. 625 rebates were provided for High Efficiency Clothes Washers, which will result in an estimated lifetime water savings of approximately 201.40 acre-feet of water. High Efficiency Toilets (HETs)/Ultra Low Flush Toilets (ULFTS) - The HET/ULFT giveaway program utilizes local schools and/or community groups to assist in implementing the program. The proposed HET/ULFT Retrofit Program enables eligible residents, living within the Upper District boundaries, to receive up to two (2) HETs/ULFTs per household free of charge. Quantities are given away on a first-come, first-serve basis. 1,646 HETs/ULFTs were distributed by the District during the FY 04-05, which will result in a lifetime savings of approximately 576.25 acre feet of water. CII Financial Incentive Retrofit Program - The CII conservation program offers commercial, industrial, and institutional facilities, within District boundaries, rebates for retrofitting a variety of high water-use fixtures/equipment with efficient water-use fixtures/equipment. CII retrofits conducted during the FY 04-05 year are estimated to result in 261 acre feet of lifetime water savings. In FY 04-05, the USGVMWD continued its participation in the CUWCCAs statewide Rinse and Save program in which spray valves were installed at participating locations within the USGVMWD territory. 213 spray valves were installed, which are expected to deliver approximately 140.58 acre-feet in lifetime savings. Watershed Program - The Watershed Restoration Program is an innovative partnership formed between the Upper District and the U.S. Forest Service that works toward restoring and preserving the watershed in the San Gabriel Mountains, which directly impacts the local groundwater supply. The program includes the use of volunteers of all ages to help collect acorns and native seeds as well as plant tree saplings in the local mountain area. The program has also funded a watershed nursery that includes a green house and potting shed. Interpretive signs have also been developed that explain the function and importance of the local watershed. Two signs can be found at rest stops along Highway 39 and a third sign is located at a rest stop along the East Fork Road, just a short distance off of Highway 39. To date, over 75,000 tree saplings have been planted through this program. San Gabriel Watershed NPS Pollution Reduction Program - The San Gabriel Watershed NPS Pollution Reduction Program will implement measures aimed at reducing excessive loadings of trash, nutrient and coliform, as well as sewage runoff, in the areas of Azusa Canyon and Chantry Flats. Measures will include trash removal, stream clearance, streambank stabilization and the installation of self-composting toilets. Wholesale Agency Assistance - As a member agency of the Metropolitan Water District of Southern California's (MWDSC), USGVMWD is able to combine MWDSC's programs and services with its own conservation

program to provide effective Wholesale Agency Assistance for local water retailers. MWDSC offers staff, resources and workshops to assist with technical, programmatic, strategic or other pertinent issues and developments associated with water conservation activities in areas such as: ULFT replacement; residential retrofits; commercial, industrial and institutional surveys; residential and large turf irrigation; and conservation-related rates and pricing; BMP reporting. USGVMWD's conservation efforts are supplemented by MWDSC's conservation program, making it 100% at least as effective as BMP 10.

C. Comments

BMP 11: Conservation Pricing

Reporting Unit: BMP Form Status: Year: Upper San Gabriel Valley MWD 100% Complete 2005

A. Implementation

Water Service Rate Structure Data by Customer Class

Number of schedules:		Use of classification:		
For the following accounts, how many rate schedules does agency offer/use?		This agency:		
Single-family residential	0	Does not offer this type of water		
2. Multi-family residential	0	Does not offer this type of water		
3. Commercial	0			
4. Industrial	0	Does not offer this type of water		
5. Institutional/ government	0	Does not offer this type of water		
6. Dedicated irrigation (potable water)	0	Does not offer this type of water		
7. Other	0	Does not offer this type of water		
8. Recycled-reclaimed water	1	Uses classification in its billing syste	m	
9. Raw water (urban use)	0	Does not offer this type of water		
10. Wholesale (urban use)	1	Uses classification in its billing syste	m	
Sewer Service				
11. Does your agency provide customers?	sewe	r service to your water	no	
12. If yes, does sewer service structures?	e use d	conservation rate	no	
13. Has your agency made the required efforts (as prescribed in BMP 11) to have sewer services billed on conservation rates?				
14. What water agency activities have been undertaken during the reporting period to achieve waste water agency volumetric billing in your water agency service area?				

B. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" No variant of this BMP?

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

C. Comments

While USGVMWD functions and reports activities on a fiscal year basis. its rates are set on a calendar year in accordance with the adoption of the Metropolitan Water District of Southern California's water rates and charges. The pricing information provided above is based on the calendar year 2006, which is the second half of the 04-05 fiscal year. To provide a fuller picture, below is the full resolution establishing the water rates and charges for the calendar year 2005. Also provided is the full resolution establishing the water rates and charges for the calendar year 2006 since that covers the first half of the 04-05 fiscal year. -- 2005 Water Rates and Charges -- RESOLUTION NO. 12-04-430 A RESOLUTION OF THE BOARD OF DIRECTORS OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT REPEALING RESOLUTION NO. 12-03-421 AND ADOPTING WATER RATES AND CHARGES FOR CALENDAR YEAR 2005 WHEREAS, the Metropolitan Water District of Southern California ("MWD" herein) has adopted water rates and charges for its classes and conditions of service for the calendar year 2005 and this Upper San Gabriel Valley Municipal Water District ("Upper District" herein) wishes to reflect MWD's new rates and charges in the water rates and charges of the Upper District; and WHEREAS, MWD has established charges in their rate structure including a Readiness-to-Serve Charge, Capacity Charge, Tier 1 and 2 commodity charges; and WHEREAS, Upper District requested that MWD continue its Standby Charge in Upper District's service area with the intention that the above referenced Readiness-to-Serve charge be paid from the funds generated from said Standby Charge for calendar year 2005; and WHEREAS, during Fiscal year 1991/92 Upper District entered into an agreement with MWD for the enlargement of the discharge valve on Service Connection USG-3. As part of this agreement, MWD will charge Upper District an additional \$2.00 per acre foot for all water delivered through this enlarged discharge valve. It is the intention of Upper District to incorporate this \$2.00 per acre foot charge into the rate established for delivery through Service Connection USG-3; and NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT as follows: Section 1. Resolution No. 12-03-421 adopted December 9, 2003, is hereby repealed. Section 2. Effective January 1, 2005, the following water rates are established and will remain effective through December 31, 2005: Class of Service Rate per Acre Foot Full Service - Treated (Tier 1) \$484.23 Full Service - Treated (Tier 2) \$569.28 Groundwater Replenishment Service - Untreated \$246.65 Long-Term Cyclic Storage Service \$125.65 Recycled Water Service By Contract Excess Annual Capacity Charge \$6,800 per CFS Minimum Service Connection Charge (per year) \$680 Section 3. Description of Service Classes: Full Service Treated (Tier 1) For Calendar Year 2005 the Upper District has an allotment of Treated Tier 1 supply of 16.511.6 acre feet at a rate of \$484.23 per acre foot. That fixed supply will be equitably allocated to all treated water service connections at the end of Calendar Year 2005. Service connections utilizing supply exceeding the aforementioned allocation will be subject to Tier 2 charges. Full Service Treated (Tier 2) For Calendar Year 2005, the Upper District will have an unlimited allotment (subject to drought restrictions) of Treated Tier 2 supply. Once the total allotment of Treated Tier 1 supply is utilized, all treated water sold will be at the Tier 2 rate of \$569.28 per acre-foot for the remainder of the calendar year. Excess Annual Capacity Charges The Tier 1 rate of \$484.23 per acre foot as well as the Treated Tier 2 rate of \$569.28 per acre foot assumes a annual maximum daily average capacity usage* per acre foot of 0.002 cubic feet per second. Sub-agencies that exceed the 0.002 CFS/AF threshold will be subject to annual excess capacity charges.

Excess capacity charges will be calculated as \$6,800 for each CFS of excess capacity utilized during the period of May through September 2005 and will apply for three years. Groundwater Replenishment Service (Untreated) The rate for untreated groundwater replenishment service will be \$246.65 per acre foot. This service will be provided at service connection USG-3 and be subject to supply availability as determined by the Metropolitan Water District. The timing and rate of delivery (CFS) for this service shall also be subject to operating restrictions imposed by the Los Angeles County Department of Public Works. Long-Term Cyclic Storage Service-Pilot Program The pilot program offers incentives to District sub-agencies to maintain long-term cyclic storage accounts in the Basin. The purpose of this program is to assist in maintaining the Basin groundwater elevation at optimum levels and creating supply reserves for drought protection. This program also provides sub-agencies with an economic incentive for meeting peak demands with groundwater and other local sources rather than treated imported water service. This will help prevent excessive capacity charges and Tier 2 penalties from MWD. * May through September only. The proposed price discount of \$121,00 per acre foot is the approximate savings realized when excessive capacity charges and Tier 2 penalties are avoided. This service will be provided at service connection USG-3 and be subject to supply availability as determined by the Metropolitan Water District. The timing and rate of delivery (CFS) for this service shall also be subject to operating restrictions imposed by the Los Angeles County Department of Public Works. The proposed terms of this pilot program are as follows: 1. The Upper District Board of Directors will establish an amount of replenishment water available each year for the program. (7,500 acre feet for Calendar Year 2005) 2. Water will be offered only to Upper District sub-agencies at a discounted rate of \$125.65 per acre foot and used to meet future demands and replacement water obligations. 3. Should available program water be oversubscribed, an equitable allocation formula will be established utilizing such factors as water rights, total groundwater production, and replacement water requirements. Actual circumstances may dictate that other factors be considered to ensure equitability. 4. Storage requirements will be as much as five years but under no circumstances be less than one year. 5. Annually. Watermaster will determine usage of long-term cyclic storage reserves that have satisfied the minimum storage requirements, taking into account groundwater basin conditions, general hydrological conditions, rainfall and other factors. 6. Watermaster will provide the District an annual accounting of cyclic storage deliveries and usage. 7. Upper District sub-agencies may participate in this program only after current replacement water obligations have been satisfied. 8. The Upper District Board will annually review the effectiveness of the program, making any changes necessary to ensure that program goals are achieved. Section 4. Treated Water Rate Model: The District has prepared a treated water rate model for the period 2004 through 2009. The model includes forecasted treated water demands, anticipated costs, probable water rates, expected cost recovery and a reasonable application of rate stabilization funds. Future actual costs and rates may vary from those presented in the model. However, the model offers a reasonable budgeting and planning tool for the District and its sub-agencies. The Board will periodically review the model to validate or modify assumptions to provide for the most rational projection of future costs and rates possible. The model presented in Exhibit A is incorporated herein by reference. Section 5. Each groundwater replenishment customer shall pay a monthly ready-to-serve charge in addition to the water rate for groundwater replenishment service. This monthly ready-to-serve charge will be \$42.00 for each cubic foot per

second of groundwater replenishment service connection capacity, at an amount not-to-exceed \$6,300.00 per month, payable in advance. Section 6. A minimum charge equivalent to ten percent (10%) or one-tenth (1/10) of the value of one CFS of capacity (\$6,800), which equals \$680 for calendar year 2005, will be billed to the sub-agencies prorated on a monthly basis irrespective of the amount of water used. Section 7. All sales, deliveries and availability of water at the rates established herein shall be subject to the ability of the Upper District to sell, deliver and make available such water under operating conditions determined by the General Manager of Upper District and of MWD, and subject to the water service regulations of Upper District and of MWD. All agencies that purchase treated water must comply with all rules, requirements. and regulations of Upper District Urban Water Management Plan adopted on or about September 2000 and any amendments or supplements thereto. Section 8. The Board of Directors finds that the water rates and charges established herein will result in a fair and equitable revenue source to partially fund budgeted expenditures, thereby reasonably allocating costs of service to those who benefit therefrom, Section 9. The Secretary of Upper District shall cause a copy of this Resolution to be mailed to all current purchasers of water from Upper District including the users of water replenishment service connections. Section 10. Resolution No. 12-03-421 is hereby repealed. PASSED, APPROVED AND ADOPTED this 14TH day of December, 2004. -- 2004 Water Rates and Charges -- RESOLUTION NO. 12-03-421 A RESOLUTION OF THE BOARD OF DIRECTORS OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT REPEALING RESOLUTION NO. 9-02-408 AND ADOPTING WATER RATES AND CHARGES FOR CALENDAR YEAR 2004 WHEREAS, the Metropolitan Water District of Southern California ("MWD" herein) has adopted water rates and charges for its classes and conditions of service for the calendar year 2004 and this Upper San Gabriel Valley Municipal Water District ("Upper District" herein) wishes to reflect MWD's new rates and charges in the water rates and charges of the Upper District; and WHEREAS, MWD has established charges in their rate structure including a Readiness-to-Serve Charge, Capacity Charge, Tier 1 and 2 commodity charges: and WHEREAS. Upper District requested that MWD continue its Standby Charge in Upper District's service area with the intention that the above referenced Readinessto-Serve charge be paid from the funds generated from said Standby Charge for calendar year 2004; and WHEREAS, during Fiscal year 1991/92 Upper District entered into an agreement with MWD for the enlargement of the discharge valve on Service Connection USG-3. As part of this agreement, MWD will charge Upper District an additional \$2.00 per acre foot for all water delivered through this enlarged discharge valve. It is the intention of Upper District to incorporate this \$2.00 per acre foot charge into the rate established for delivery through Service Connection USG-3; and NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT as follows: Section 1. Resolution No. 9-02-408 adopted September 24, 2002, is hereby repealed. Section 2. Effective January 1, 2004, the following water rates are established and will remain effective through December 31, 2004: Class of Service Rate per Acre Foot Full Service - Treated (Tier 1) \$452.55 Full Service - Treated (Tier 2) \$537.60 Groundwater Replenishment Service - Untreated \$246.65 Long-Term Cyclic Storage Service \$125.65 Recycled Water Service By Contract Excess Annual Capacity Charge \$6,100 per CFS Section 3. Description of Service Classes: Full Service Treated (Tier 1) For Calendar Year 2004 the Upper District has an allotment of Treated Tier 1 supply of 16,511.6 acre feet at a rate of \$452.55 per acre foot. That fixed supply will be equitably allocated to all treated water service connections at the end of Calendar Year 2004. Service connections utilizing supply exceeding the aforementioned allocation will be subject to Tier 2 charges. Full Service Treated (Tier 2) For Calendar Year 2004, the Upper District will have an unlimited allotment (subject to drought restrictions) of Treated Tier 2 supply. Once the total allotment of Treated Tier 1 supply is utilized, all treated water sold will be at the Tier 2 rate of \$537.60 per acre-foot for the remainder of the calendar year. Excess Annual Capacity Charges The Tier 1 rate of \$452.55 per acre foot as well as the Treated Tier 2 rate of \$537.60 per acre foot assumes a annual maximum daily average capacity usage* per acre foot of 0.002 cubic feet per second. Sub-agencies that exceed the 0.002 CFS/AF threshold will be subject to annual excess capacity charges. Excess capacity charges will be calculated as \$6,100 for each CFS of excess capacity utilized during the period of May through September 2004 and will apply for three years. Groundwater Replenishment Service (Untreated) The rate for untreated groundwater replenishment service will be \$246.65 per acre foot. This service will be provided at service connection USG-3 and be subject to supply availability as determined by the Metropolitan Water District. The timing and rate of delivery (CFS) for this service shall also be subject to operating restrictions imposed by the Los Angeles County Department of Public Works. Long-Term Cyclic Storage Service-Pilot Program The pilot program offers incentives to District sub-agencies to maintain long-term cyclic storage accounts in the Basin. The purpose of this program is to assist in maintaining the Basin groundwater elevation at optimum levels and creating supply reserves for drought protection. This program also provides sub-agencies with an economic incentive for meeting peak demands with groundwater and other local sources rather than treated imported water service. This will help prevent excessive capacity charges and Tier 2 penalties from MWD. * May through September only. The proposed price discount of \$121.00 per acre foot is the approximate savings realized when excessive capacity charges and Tier 2 penalties are avoided. This service will be provided at service connection USG-3 and be subject to supply availability as determined by the Metropolitan Water District. The timing and rate of delivery (CFS) for this service shall also be subject to operating restrictions imposed by the Los Angeles County Department of Public Works. The proposed terms of this pilot program are as follows: 1. The Upper District Board of Directors will establish an amount of replenishment water available each year for the program. (10,000 acre feet for Calendar Year 2004) 2. Water will be offered only to Upper District sub-agencies at a discounted rate of \$125.65 per acre foot and used to meet future demands and replacement water obligations. 3. Should available program water be oversubscribed, an equitable allocation formula will be established utilizing such factors as water rights, total groundwater production, and replacement water requirements. Actual circumstances may dictate that other factors be considered to ensure equitability. 4. Storage requirements will be as much as five years but under no circumstances be less than one year. 5. Annually, Watermaster will determine usage of long-term cyclic storage reserves that have satisfied the minimum storage requirements, taking into account groundwater basin conditions, general hydrological conditions, rainfall and other factors. 6. Watermaster will provide the District an annual accounting of cyclic storage deliveries and usage. 7. Upper District sub-agencies may participate in this program only after current replacement water obligations have been satisfied. 8. The Upper District Board will annually review the effectiveness of the program, making any changes necessary to ensure that program goals are achieved. Section 4. Treated Water

Rate Model: The District has prepared a treated water rate model for the period 2003 through 2007. The model includes forecasted treated water demands, anticipated costs, probable water rates, expected cost recovery and a reasonable application of rate stabilization funds. Future actual costs and rates may vary from those presented in the model. However, the model offers a reasonable budgeting and planning tool for the District and its sub-agencies. The Board will periodically review the model to validate or modify assumptions to provide for the most rational projection of future costs and rates possible. The model presented in Exhibit A is incorporated herein by reference. Section 5. Each groundwater replenishment customer shall pay a monthly ready-to-serve charge in addition to the water rate for groundwater replenishment service. This monthly ready-to-serve charge will be \$42.00 for each cubic foot per second of groundwater replenishment service connection capacity, at an amount not-to-exceed \$6,300,00 per month, payable in advance. Section 6. A minimum charge equivalent to ten percent (10%) or one-tenth (1/10) of the value of one CFS of capacity (\$6,100), which equals \$610 for calendar year 2004, will be billed to the sub-agencies prorated on a monthly basis irrespective of the amount of water used. Section 7. All sales, deliveries and availability of water at the rates established herein shall be subject to the ability of the Upper District to sell, deliver and make available such water under operating conditions determined by the General Manager of Upper District and of MWD, and subject to the water service regulations of Upper District and of MWD. All agencies that purchase treated water must comply with all rules, requirements, and regulations of Upper District Urban Water Management Plan adopted on or about September 2000 and any amendments or supplements thereto. Section 8. The Board of Directors finds that the water rates and charges established herein will result in a fair and equitable revenue source to partially fund budgeted expenditures, thereby reasonably allocating costs of service to those who benefit therefrom, Section 9. The Secretary of Upper District shall cause a copy of this Resolution to be mailed to all current purchasers of water from Upper District including the users of water replenishment service connections. Section 10. Resolution No. 9-02-408 is hereby repealed. PASSED, APPROVED AND ADOPTED this 9TH day of December, 2003.

BMP 11: Conservation Pricing

	er vacion i ilcing		4-4	V
Reporting Unit:	al Vallass MANA/D	BMP Form S		Year: 2005
Upper San Gabri		100% Comp	Jiete	2005
8.A. Recycled Ra				
a. Water Rate	Structure			Uniform
b. Sewer Rate	Structure		Service N	lot Provided
	ue from only Volumetric			11879.56
(Includes fixed	ue from Non-Volumetrion fees, surcharges, mini Inly service charges, me	mum usage		0
e. Total Reven	ue from this category			11879.56
8.A. Rate Scho	edule - Volumetric			
Title: R	ecycled Water Service			
f Billing Cycles	lugar			12
f. Billing Cycles g. Service Cha	-			0
g. Service Cha h. Gallons/Bill l				325850
i. Minimum Use				0
	its (included in monthly	service		0
charge)	its (moladed in monthly	SCI VIOC		J
		\$/B	III I Init	Starting At (unit qty.)
k. Tier 1			266	0
I. Tier 2				-
m. Tier 3				
n. Tier 4				
o. Tier 5				
p. Tier 6				
p/ 1101 5				
q. Approximate this rate sched	quantity of meters/ac	counts on		3
r. Are elevation	charges included?			no
	total annual water usa s on this rate schedule	age (AF)		44.66

r. Are elevation charges included?

from customers on this rate schedule

s. Approximate total annual water usage (AF)

BMP 11: Conservation Pricing	J	2
Reporting Unit:	BMP Form Status:	Year:
Upper San Gabriel Valley MWD	100% Complete	2005
10.A. Wholesale Rate Schedule A		
a. Water Rate Structure		Uniform
b. Sewer Rate Structure	Service	Not Provided
c. Total Revenue from only Volumetric	c Charges	6129061.21
 d. Total Revenue from Non-Volumetric (Includes fixed fees, surcharges, mini- charges, monthly service charges, me etc.) 	mum usage	2597.52
e. Total Revenue from this category		6131658.73
10.A. Rate Schedule - Volumetric Title: Full Service - Treated		
f. Billing Cycles/year		12
g. Service Charges/Cycle		0
h. Gallons/Bill Unit		325850
i. Minimum Use/Cycle		56.67
j. Non-billed Units (included in monthly charge)	service	0
	\$/Bill Unit	Starting At (unit qty.)
k. Tier 1	484.23	0
I. Tier 2	569.28	16,511.6
m. Tier 3		
n. Tier 4		
o. Tier 5		
p. Tier 6		
q. Approximate quantity of meters/act	counts on	8

no

12895.3

BMP 12: Conservation Coordinator

Reporting Unit: BMP Form Status: Year: Upper San Gabriel Valley MWD 100% Complete 2005

A. Implementation

- Does your Agency have a conservation coordinator?
- 2. Is a coordinator position supplied by another agency with which you cooperate in a regional conservation program?
 - a. Partner agency's name:
- 3. If your agency supplies the conservation coordinator:
 - a. What percent is this conservation coordinator's position?

90%

yes

no

b. Coordinator's Name

Elena Layugan

c. Coordinator's Title

Conservation Coordinator

d. Coordinator's Experience in Number of

Years

13 Years

e. Date Coordinator's position was created (mm/dd/yyyy)

09/01/1992

4. Number of conservation staff (FTEs), including Conservation Coordinator.

1

B. Conservation Staff Program Expenditures

Staffing Expenditures (In-house Only)

157463.77

2. BMP Program Implementation Expenditures

1521948.23

C. "At Least As Effective As"

1. Is your agency implementing an "at least as effective as" variant of this BMP?

no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

APPENDIX J.2 2006 California Urban Water Conservation Council Annual Reports and Coverage Reports

Water Supply & Reuse

Year: Reporting Unit: Upper San Gabriel Valley MWD 2006 **Water Supply Source Information** Quantity (AF) Supply **Supply Source Name** Supplied Type Metropolitan Water District of Southern 75565.5 Imported California Recycled 52.17 Recycled Water

> Total AF: 75617.67

Purchaser Information

Name of Agency	Quantity (AF) Supplied	Retailer or Wholesaler
Southern California Water Company (USG-01)	934.7	retail
South Pasadena, City of (USG-02)	73.5	retail
Suburban Water Systems (USG-04)	6489.6	retail
Watermaster/Alhambra, City of (USG-05)	2815.5	retail
Arcadia, City of (USG-06)	0	retail
Monrovia, City of (USG-07)	5.1	retail
Azusa, City of (USG-08)	662.9	retail
Valley County Water District (USG-09)	0	retail
Main San Gabriel Basin Watermaster (USG-03)	64584.2	wholesale
San Gabriel Valley Water Company (Recycled)	52.17	retail

Total AF: 75617.67

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit:

BMP Form Status:

Year:

Upper San Gabriel Valley MWD

100% Complete

2006

A. Implementation

1. Does your agency own or operate a water distribution system?

no

AGENCY DOES NOT OWN OR OPERATE A WATER DISTRIBUTION SYSTEM

BMP 07: Public Information Programs

Reporting Unit: BMP Form Status: Year: Upper San Gabriel Valley MWD 100% Complete 2006

A. Implementation

1. How is your public information program implemented?

Wholesaler implements program (none or minimal retailer participation)

2. Describe the program and how it's organized:

USGVMWD's maintains an active public information program to promote and educate water conservation. In addition to MWDSC's public information efforts, USGVMWD offers an array of conservation brochures, children's activity booklets, public outreach displays, oral presentations and workshops. Press releases and news ads are also used to highlight water efficient projects and to raise awareness about water conservation efforts. USGVMWD's annual WaterFest drew approximately 4,500 attendees. USGVMWD utilitizes the festival to reach out to the community and raise public awareness about water conservation, water quality, and other relvant water issues. Four (4) tours of local water facilities were also hosted by the Upper District.

3. Indicate which and how many of the following activities are included in your public information program:

Region-Wide Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	yes	23
b. Public Service Announcement	no	
c. Bill Inserts / Newsletters / Brochures	yes	5
d. Bill showing water usage in comparison to previous year's usage	no	
e. Demonstration Gardens	yes	1
f. Special Events, Media Events	yes	3
g. Speaker's Bureau	yes	3
 h. Program to coordinate with other government agencies, industry and public interest groups and media 	yes	

B. Conservation Information Program Expenditures

1. Annual Expenditures (Excluding Staffing)

67344.14

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?

No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

BMP 08: School Education Programs

Reporting Unit:

Upper San Gabriel Valley

BMP Form Status: Year:

100% Complete 2006

MWD

A. Implementation

- 1. How is your public information program implemented?

 Wholesaler implements program (none or minimal retailer participation)
- 2. Please provide information on your region-wide school programs (by grade level):

Grade	Are grade- appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops	
Grades K-3rd	yes	2	57	0	
Grades 4th-6th	yes	2	95	0	
Grades 7th-8th	yes	0	0	0	
High School	yes	0	0	0	
4. Did your Agency's materials meet state education framework yes requirements?					
5. When did your Agency begin implementing this program?				09/01/1992	
B. School Educa	ition Program	n Expenditur	es		
1. Annual Expend	itures (Excluding	Staffing)		165139.22	

C. "At Least As Effective As"

Is your AGENCY implementing an "at least as effective as" variant of this BMP?

yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

USGVMWD is a member agency of the Metropolitan Water District of Southern California (MWDSC), which has an extensive education program that offers age/grade-appropriate materials to all schools within the MWDSC territory, including ALL schools within USGVMWD's boundaries. MWDSC provides an active school education program that promotes water conservation and water conservation related benefits. Its educational program includes working with school districts and private schools within its boundaries to: provide instructional assistance, educational materials, and classroom presentations that identify urban, agricultural, and environmental issues and conditions in the local watershed. MWDSC's educational materials meet state education framework requirements and are grade appropriate materials that are offered to all grade levels K - 12th. USGVMWD is a member agency of MWDSC, therefore, all schools within USGVMWD's boundaries are covered under MWDSC's educational program, making it 100% as effective as BMP 8 in ensuring a viable education program with no direct cost contribution from USGVMWD. Since the educational program is handled by MWDSC, it is MWDSC who documents and reports on: a) Number of school presentations made during reporting period. b) Number

and type of curriculum materials developed and/or provided by water supplier, including confirmation that curriculum materials meet state education framework requirements and are grade-level appropriate. c) Number of students reached. d) Number of in-service presentations or teacher's workshops conducted during reporting period. e) Annual budget for school education programs related to conservation. In addition to MWDSC's educational program, USGVMWD directly offered the following school education programs: ~ Water Awareness Art Contests: In an effort to raise awareness of water issues among children, USGVMWD sponsors an annual poster art contests for grades K - 3rd and 4th - 6th. The five winning posters for each category receive monetary awards and are printed into sheets of stickers. These 10 winning posters are then submitted as USGVMWD's entries in MWDSC's poster art contest. USGVMWD also sponsors a t-shirt art contest for grades 7th - 12th in which the top five selections receive monetary awards, with the top two designs printed onto t-shirts and the top five entries submitted to MWDSC's upper grade art contest. A total of 156 entries were received for the FY 04-05 art contest. ~ Solar Cup Competition: Once again USGVMWD sponsored four high school teams in MWDSC's Solar Cup Competition, which provides high school students the opportunity to build solar powered boat that compete in race and endurance categories. The program offers student participants an opportunity to learn about natural resources, the development/use of alternative fuel sources and protection of water quality. ~ Water Education Grant Program: USGVMWD sponsors a water education grant program that offers teachers and/or schools within the District boundaries grants of up to \$1,000 to fund water-related educational projects. Eight (8) grants, totaling \$7,555 were funded for the FY 05-06. The projects are estimated to impact over 1,200 students from grades K-12. ~ Water Resource Library: USGVMWD also maintains an onsite library offering a variety of current water education materials for all ages. Resources available for loan include activity books, textbooks, videotapes and computer software. These educational resources are different than the materials offered through MWDSC's educational program, giving local schools access to a wider range of water education resources.

D. Comments

BMP 10: Wholesale Agency Assistance Programs

Reporting Unit:

BMP Form Status:

Year:

Upper San Gabriel Valley MWD

100% Complete

2006

yes

A. Implementation

1. Financial Support by BMP

1						-
ВМР		Budgeted Amoun Amount Awarde		Financial Incentives Offered?	Budgeted Amount	
1	No		8	No		
2	No		9	No		
3	No		10	No		
_						
4	No		11	No		
7						
5	No		12	No		
5	140		14	140		
•	No		40	No		
6	No		13	NO		
7	No		14	No		

2. Technical Support

a. Has your agency conducted or funded workshops addressing CUWCC procedures for calculating program savings, costs and cost-effectiveness?	No
b. Has your agency conducted or funded workshops addressing retail agencies' BMP implementation reporting requirements?	No
c. Has your agency conducted or funded workshops addressing:	
1) ULFT replacement	No
2) Residential retrofits	No
3) Commercial, industrial, and institutional surveys	No

4) Residential and large turf irrigation

3. Staff Resources by BMP

Qualified No. FTE Qualified No. F Staff Staff Staff Staff Staff Available Assigned Available Assign	
BMP for BMP? to BMP BMP for BMP? to BM	ned
1 No 8 No	
2 No 9 No	
3 No 10 yes 1	
4 No 11 No	
5 No 12 No	
6 No 13 No	
7 No 14 No	

4. Regional Programs by BMP

ВМР	Implementation/ Management Program?	вмР	Implementation/ Management Program?
1	No	8	yes
2	No	9	yes
3	No	10	yes
4	No	11	No
5	No	12	yes
6	yes	13	yes

B. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?

yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

Residential High Efficiency Clothes Washers (HECW) Rebate Program The Upper District's Residential High Efficiency Clothes Washer (HECW) Rebate Program provides rebates to residential customers within the District boundaries, for the purchase and installation of a qualifying HECW. This rebate provides a much-needed incentive to encourage consumers to select HECWs over the lower-costing, less-efficient models of washers. 581 rebates have been provided for High Efficiency Clothes Washers, which will result in an estimated lifetime water savings of approximately 187.22 acre-feet of water. High Efficiency Toilets (HETs) / Ultra Low Flush Toilets (ULFTS) The HET/ULFT giveaway program utilizes local schools and/or community groups to assist in implementing the program. The proposed HET/ULFT Retrofit Program would enable eligible residents, living within the Upper District boundaries, to receive up to two (2) HETs/ULFTs per household free of charge. Quantities will be given away on a first come, first serve basis. 2,875 HETs/ULFTs were distributed by the District during the FY 05-06, resulting in a lifetime savings of approximately 967.50 acre feet of water. CII Financial Incentive Retrofit Program The CII conservation program offers commercial, industrial, and institutional facilities, within District boundaries, rebates for retrofitting several types of high water-use fixtures/equipment with efficient water-use fixtures/equipment. Retrofits conducted during the 05-06 fiscal year, to date, have resulted in another 994.36 acre feet of lifetime water savings. In FY 05-06, the USGVMWD continued its participation in the CUWCCIs statewide Rinse and Save program in which spray valves were installed at participating locations within the USGVMWD territory. 30 spray valves were installed, which are expected to deliver approximately 19.80 acre-feet in lifetime savings. Other Devices Distributed 1,500 low flow showerheads and 1,700 aerators were also distributed during the 05-06 fiscal year, providing an additional estimated lifetime savings of 27.56 acre feet of water. Watershed Program The Watershed Restoration Program is an innovative partnership formed between the Upper District and the U.S. Forest Service that works toward restoring and preserving the watershed in the San Gabriel Mountains, which directly impacts the local groundwater supply. The program includes the use of volunteers of all ages to help collect acorns and native seeds as well as plant tree saplings in the local mountain area. The program has also funded a watershed nursery that includes a green house and potting shed. Interpretive signs have also been developed that explain the function and importance of the local watershed. Two signs can be found at rest stops along Highway 39 and a third sign is located at a rest stop along the East Fork Road, just a short distance off of Highway 39. To date, close to 85,000 tree saplings have been planted through this program. San Gabriel Watershed NPS Pollution Reduction Program The San Gabriel Watershed NPS Pollution Reduction Program continues to focus on reducing excessive loadings of trash, nutrient and coliform, as well as sewage runoff, in the areas of Azusa Canyon. Measures include trash removal, stream clearance, streambank stabilization and the installation of five vault toilets. Landscaping and Gardening Seminars A number of water efficient

landscaping and gardening courses have been offered, free of charge, to the public. Courses have been offered in both Spanish and English. During the FY 05-06, approximately 90 people participated in the courses. Wholesale Agency Assistance As a member agency of the Metropolitan Water District of Southern California's (MWDSC), USGVMWD is able to combine MWDSC's programs and services with its own conservation program to provide effective Wholesale Agency Assistance for local water retailers. MWDSC offers staff, resources and workshops to assist with technical, programmatic, strategic or other pertinent issues and developments associated with water conservation activities in areas such as: ULFT replacement; residential retrofits; commercial, industrial and institutional surveys; residential and large turf irrigation; and conservation-related rates and pricing; BMP reporting. USGVMWD's conservation efforts are supplemented by MWDSC's conservation program, making it 100% at least as effective as BMP 10.

C. Comments

BMP 11: Conservation Pricing

Reporting Unit: BMP Form Status: Year: Upper San Gabriel Valley MWD 100% Complete 2006

A. Implementation

Water Service Rate Structure Data by Customer Class

Number of schedules:		Use of classification:		
For the following accounts, how many rate schedules does agency offer/use?		This agency:		
1. Single-family residential	0	Does not offer this type of water		
2. Multi-family residential	0	Does not offer this type of water		
3. Commercial	0			
4. Industrial	0	Does not offer this type of water		
5. Institutional/ government	0	Does not offer this type of water		
6. Dedicated irrigation (potable water)	0	Does not offer this type of water		
7. Other	0	Does not offer this type of water		
8. Recycled-reclaimed water	1	Uses classification in its billing system	m	
9. Raw water (urban use)	0	Does not offer this type of water		
10. Wholesale (urban use)	1	Uses classification in its billing syste	m	
Sewer Service				
11. Does your agency provide customers?	sewe	r service to your water	no	
12. If yes, does sewer service structures?	e use d	conservation rate	no	
13. Has your agency made the required efforts (as prescribed in BMP 11) to have sewer services billed on conservation rates?				
14. What water agency activit undertaken during the reportin waste water agency volumetri water agency service area?	ng peri	od to achieve	None	

B. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" No variant of this BMP?

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

C. Comments

While USGVMWD functions and reports activities on a fiscal year basis, its rates are set on a calendar year in accordance with the adoption of the Metropolitan Water District of Southern California's water rates and charges. The pricing information provided above is based on the calendar year 2006, which is halfway through the fiscal year. To provide a fuller picture, below is the full resolution establishing the water rates and charges for the calendar year 2006. Also provided is the full resolution establishing the water rates and charges for the calendar year 2005 since that covers the first half of the fiscal year. -- 2006 Water Rates and Charges -- RESOLUTION NO. 1-06-439 A RESOLUTION OF THE BOARD OF DIRECTORS OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT REPEALING RESOLUTION NO. 12-04-430 AND ADOPTING WATER RATES AND CHARGES FOR CALENDAR YEAR 2006
 WHEREAS, the Metropolitan Water District of Southern California (·MWDÓ herein) has adopted water rates and charges for its classes and conditions of service for the calendar year 2006 and this Upper San Gabriel Valley Municipal Water District ("Upper District" herein) wishes to reflect MWD*s new rates and charges in the water rates and charges of the Upper District; and WHEREAS, MWD has established charges in their rate structure including a Readiness-to-Serve Charge, Capacity Charge, Tier 1 and 2 commodity charges; and WHEREAS, Upper District requested that MWD continue its Standby Charge in Upper District*s service area with the intention that the above referenced Readiness-to-Serve charge be paid from the funds generated from said Standby Charge for calendar year 2006; and WHEREAS, during Fiscal year 1991/92 Upper District entered into an agreement with MWD for the enlargement of the discharge valve on Service Connection USG-3. As part of this agreement, MWD will charge Upper District an additional \$2.00 per acre foot for all water delivered through this enlarged discharge valve. It is the intention of Upper District to incorporate this \$2.00 per acre foot charge into the rate established for delivery through Service Connection USG-3; and NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT as follows: Section 1. Resolution No. 12-04-430 adopted December 14, 2004, is hereby repealed. Section 2. Effective February 1, 2006, the following water rates are established and will remain effective through December 31, 2006: Class of Service Rate per Acre Foot Full Service Ï Treated (Tier 1) \$484.23 Full Service Ï Treated (Tier 2) \$585.03 Groundwater Replenishment Service I Untreated \$251.90 Long-Term Cyclic Storage Service \$130.90 Recycled Water Service By Contract Excess Annual Capacity Charge \$6,800 per CFS Minimum Service Connection Charge (per year) \$680 Groundwater Replenishment Readyto-Serve Charge \$42 per CFS/\$6,300 per Month Section 3. Description of Service Classes: Full Service Treated (Tier 1) For Calendar Year 2006 the Upper District has an allotment of Treated Tier 1 supply of 16,511.6 acre feet at a rate of \$484.23 per acre foot. That fixed supply will be equitably allocated to all treated water service connections at the end of Calendar Year 2006. Service connections utilizing supply exceeding the aforementioned allocation will be subject to Tier 2 charges. Full Service Treated (Tier 2) For Calendar Year 2006, the Upper District will have an unlimited allotment (subject to drought restrictions) of Treated Tier 2 supply. Once the total allotment of Treated Tier 1 supply is utilized, all treated water sold will be at the Tier 2 rate of \$585.03 per acre-foot for the remainder of the calendar year. Excess Annual Capacity Charges The Tier 1 rate of \$484.23 per acre foot as well as the Treated Tier 2 rate of \$585.03 per acre foot assumes an annual maximum daily average capacity usage* per acre foot of 0.002 cubic feet per second. Sub-agencies that exceed the 0.002 CFS/AF threshold will be subject to annual excess capacity charges. Excess capacity charges will be calculated as \$6,800 for each CFS of excess capacity utilized during the period of May through September 2006 and will apply for three years. Groundwater Replenishment Service (Untreated) The rate for untreated groundwater replenishment service will be \$251.90 per acre foot. This service will be provided at service connection USG-3 and be subject to supply availability as determined by the Metropolitan Water District. The timing and rate of delivery (CFS) for this service shall also be subject to operating restrictions imposed by the Los Angeles County Department of Public Works. Long-Term Cyclic Storage Service-Pilot Program The pilot program offers incentives to District sub-agencies to maintain long-term cyclic storage accounts in the Basin. The purpose of this program is to assist in maintaining the Basin groundwater elevation at optimum levels and creating supply reserves for drought protection. This program also provides sub-agencies with an economic incentive for meeting peak demands with groundwater and other local sources rather than treated imported water service. This will help prevent excessive capacity charges and Tier 2 penalties from MWD. * May through September only. The proposed price discount of \$121.00 per acre foot is the approximate savings realized when excessive capacity charges and Tier 2 penalties are avoided. This service will be provided at service connection USG-3 and be subject to supply availability as determined by the Metropolitan Water District. The timing and rate of delivery (CFS) for this service shall also be subject to operating restrictions imposed by the Los Angeles County Department of Public Works. The proposed terms of this pilot program are as follows: 1. The Upper District Board of Directors will establish an amount of replenishment water available each year for the program. 2. Water will be offered only to Upper District sub-agencies at a discounted rate of \$130.90 per acre foot and used to meet future demands and replacement water obligations. 3. Should available program water be oversubscribed, an equitable allocation formula will be established utilizing such factors as water rights, total groundwater production, and replacement water requirements. Actual circumstances may dictate that other factors be considered to ensure equitability. 4. Storage requirements will be as much as five years but under no circumstances be less than one year. 5. Annually, Watermaster will determine usage of long-term cyclic storage reserves that have satisfied the minimum storage requirements, taking into account groundwater basin conditions. general hydrological conditions, rainfall and other factors. 6. Watermaster will provide the District an annual accounting of cyclic storage deliveries and usage. 7. Upper District sub-agencies may participate in this program only after current replacement water obligations have been satisfied. 8. The Upper District Board will annually review the effectiveness of the program, making any changes necessary to ensure that program goals are achieved. Section 4. Treated Water Rate Model: The District has prepared a treated water rate model for the period 2005 through 2011. The model includes forecasted treated water demands, anticipated costs, probable water rates, expected cost recovery and a reasonable application of rate stabilization funds. Future actual costs and rates may vary from those presented in the model. However, the model offers a reasonable budgeting and planning tool for the District and its sub-agencies. The Board will periodically review the model to validate or modify assumptions to provide for the most rational projection of future costs and rates possible. The model presented in Exhibit A is incorporated herein by reference. Section 5. Each groundwater replenishment customer shall pay a monthly ready-to-serve charge in addition to the water rate for groundwater replenishment service. This monthly ready-to-serve charge will be \$42.00 for each

cubic foot per second of groundwater replenishment service connection capacity, at an amount not-to-exceed \$6,300.00 per month, payable in advance. Section 6. A minimum charge equivalent to ten percent (10%) or one-tenth (1/10) of the value of one CFS of capacity (\$6,800), which equals \$680 for calendar year 2006, will be billed to the sub-agencies prorated on a monthly basis irrespective of the amount of water used. Section 7. All sales, deliveries and availability of water at the rates established herein shall be subject to the ability of the Upper District to sell, deliver and make available such water under operating conditions determined by the General Manager of Upper District and of MWD, and subject to the water service regulations of Upper District and of MWD. All agencies that purchase treated water must comply with all rules, requirements, and regulations of Upper District Urban Water Management Plan adopted on or about December 2005 and any amendments or supplements thereto. Section 8. The Board of Directors finds that the water rates and charges established herein will result in a fair and equitable revenue source to partially fund budgeted expenditures, thereby reasonably allocating costs of service to those who benefit therefrom. Section 9. The Secretary of Upper District shall cause a copy of this Resolution to be mailed to all current purchasers of water from Upper District including the users of water replenishment service connections. Section 10. Resolution No. 12-04-430 is hereby repealed. PASSED, APPROVED AND ADOPTED this 3rd day of January, 2006. -- 2005 Water Rates and Charges -- RESOLUTION NO. 12-04-430 A RESOLUTION OF THE BOARD OF DIRECTORS OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT REPEALING RESOLUTION NO. 12-03-421 AND ADOPTING WATER RATES AND CHARGES FOR CALENDAR YEAR 2005 WHEREAS, the Metropolitan Water District of Southern California (·MWDÓ herein) has adopted water rates and charges for its classes and conditions of service for the calendar year 2005 and this Upper San Gabriel Valley Municipal Water District (·Upper DistrictÓ herein) wishes to reflect MWD*s new rates and charges in the water rates and charges of the Upper District; and WHEREAS, MWD has established charges in their rate structure including a Readiness-to-Serve Charge, Capacity Charge, Tier 1 and 2 commodity charges; and WHEREAS, Upper District requested that MWD continue its Standby Charge in Upper District*s service area with the intention that the above referenced Readinessto-Serve charge be paid from the funds generated from said Standby Charge for calendar year 2005; and WHEREAS, during Fiscal year 1991/92 Upper District entered into an agreement with MWD for the enlargement of the discharge valve on Service Connection USG-3. As part of this agreement, MWD will charge Upper District an additional \$2.00 per acre foot for all water delivered through this enlarged discharge valve. It is the intention of Upper District to incorporate this \$2.00 per acre foot charge into the rate established for delivery through Service Connection USG-3; and NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT as follows: Section 1. Resolution No. 12-03-421 adopted December 9, 2003, is hereby repealed. Section 2. Effective January 1, 2005, the following water rates are established and will remain effective through December 31, 2005: Class of Service Rate per Acre Foot Full Service Treated (Tier 1) \$484.23 Full Service I Treated (Tier 2) \$569.28 Groundwater Replenishment Service I Untreated \$246.65 Long-Term Cyclic Storage Service \$125.65 Recycled Water Service By Contract Excess Annual Capacity Charge \$6,800 per CFS Minimum Service Connection Charge (per year) \$680 Section 3. Description of Service Classes: Full Service Treated (Tier 1) For Calendar Year 2005 the Upper District has an

allotment of Treated Tier 1 supply of 16,511.6 acre feet at a rate of \$484.23 per acre foot. That fixed supply will be equitably allocated to all treated water service connections at the end of Calendar Year 2005. Service connections utilizing supply exceeding the aforementioned allocation will be subject to Tier 2 charges. Full Service Treated (Tier 2) For Calendar Year 2005, the Upper District will have an unlimited allotment (subject to drought restrictions) of Treated Tier 2 supply. Once the total allotment of Treated Tier 1 supply is utilized, all treated water sold will be at the Tier 2 rate of \$569.28 per acre-foot for the remainder of the calendar year. Excess Annual Capacity Charges The Tier 1 rate of \$484.23 per acre foot as well as the Treated Tier 2 rate of \$569.28 per acre foot assumes a annual maximum daily average capacity usage* per acre foot of 0.002 cubic feet per second. Sub-agencies that exceed the 0.002 CFS/AF threshold will be subject to annual excess capacity charges. Excess capacity charges will be calculated as \$6,800 for each CFS of excess capacity utilized during the period of May through September 2005 and will apply for three years. Groundwater Replenishment Service (Untreated) The rate for untreated groundwater replenishment service will be \$246.65 per acre foot. This service will be provided at service connection USG-3 and be subject to supply availability as determined by the Metropolitan Water District. The timing and rate of delivery (CFS) for this service shall also be subject to operating restrictions imposed by the Los Angeles County Department of Public Works. Long-Term Cyclic Storage Service-Pilot Program The pilot program offers incentives to District sub-agencies to maintain long-term cyclic storage accounts in the Basin. The purpose of this program is to assist in maintaining the Basin groundwater elevation at optimum levels and creating supply reserves for drought protection. This program also provides sub-agencies with an economic incentive for meeting peak demands with groundwater and other local sources rather than treated imported water service. This will help prevent excessive capacity charges and Tier 2 penalties from MWD. * May through September only. The proposed price discount of \$121.00 per acre foot is the approximate savings realized when excessive capacity charges and Tier 2 penalties are avoided. This service will be provided at service connection USG-3 and be subject to supply availability as determined by the Metropolitan Water District. The timing and rate of delivery (CFS) for this service shall also be subject to operating restrictions imposed by the Los Angeles County Department of Public Works. The proposed terms of this pilot program are as follows: 1. The Upper District Board of Directors will establish an amount of replenishment water available each year for the program. (7,500 acre feet for Calendar Year 2005) 2. Water will be offered only to Upper District sub-agencies at a discounted rate of \$125.65 per acre foot and used to meet future demands and replacement water obligations. 3. Should available program water be oversubscribed, an equitable allocation formula will be established utilizing such factors as water rights, total groundwater production, and replacement water requirements. Actual circumstances may dictate that other factors be considered to ensure equitability. 4. Storage requirements will be as much as five years but under no circumstances be less than one year. 5. Annually, Watermaster will determine usage of long-term cyclic storage reserves that have satisfied the minimum storage requirements, taking into account groundwater basin conditions, general hydrological conditions, rainfall and other factors. 6. Watermaster will provide the District an annual accounting of cyclic storage deliveries and usage. 7. Upper District sub-agencies may participate in this program only after current replacement water obligations have been satisfied. 8. The Upper District Board will annually review the effectiveness of the program, making any changes necessary

to ensure that program goals are achieved. Section 4. Treated Water Rate Model: The District has prepared a treated water rate model for the period 2004 through 2009. The model includes forecasted treated water demands, anticipated costs, probable water rates, expected cost recovery and a reasonable application of rate stabilization funds. Future actual costs and rates may vary from those presented in the model. However, the model offers a reasonable budgeting and planning tool for the District and its sub-agencies. The Board will periodically review the model to validate or modify assumptions to provide for the most rational projection of future costs and rates possible. The model presented in Exhibit A is incorporated herein by reference. Section 5. Each groundwater replenishment customer shall pay a monthly ready-to-serve charge in addition to the water rate for groundwater replenishment service. This monthly ready-to-serve charge will be \$42.00 for each cubic foot per second of groundwater replenishment service connection capacity, at an amount not-to-exceed \$6,300.00 per month, payable in advance. Section 6. A minimum charge equivalent to ten percent (10%) or one-tenth (1/10) of the value of one CFS of capacity (\$6,800), which equals \$680 for calendar year 2005, will be billed to the sub-agencies prorated on a monthly basis irrespective of the amount of water used. Section 7. All sales, deliveries and availability of water at the rates established herein shall be subject to the ability of the Upper District to sell, deliver and make available such water under operating conditions determined by the General Manager of Upper District and of MWD, and subject to the water service regulations of Upper District and of MWD. All agencies that purchase treated water must comply with all rules, requirements, and regulations of Upper District Urban Water Management Plan adopted on or about September 2000 and any amendments or supplements thereto. Section 8. The Board of Directors finds that the water rates and charges established herein will result in a fair and equitable revenue source to partially fund budgeted expenditures, thereby reasonably allocating costs of service to those who benefit therefrom. Section 9. The Secretary of Upper District shall cause a copy of this Resolution to be mailed to all current purchasers of water from Upper District including the users of water replenishment service connections. Section 10. Resolution No. 12-03-421 is hereby repealed. PASSED, APPROVED AND ADOPTED this 14TH day of December, 2004.

BMP 11: Conservation Pricing Year: BMP Form Status: Reporting Unit: 2006 100% Complete **Upper San Gabriel Valley MWD** 8.A. Recycled Rate Schedule A Uniform a. Water Rate Structure Service Not Provided b. Sewer Rate Structure 13877.22 c. Total Revenue from only Volumetric Charges d. Total Revenue from Non-Volumetric Charges (Includes fixed fees, surcharges, minimum usage 0 charges, monthly service charges, meter charges 13877.22 e. Total Revenue from this category 8.A. Rate Schedule - Volumetric Title: Recycled Water Service 12 f. Billing Cycles/year 0 g. Service Charges/Cycle 325850 h. Gallons/Bill Unit 0 i. Minimum Use/Cycle 0 j. Non-billed Units (included in monthly service charge) \$/Bill Unit Starting At (unit qty.) 235 k. Tier 1 I. Tier 2 m. Tier 3 n. Tier 4 o. Tier 5 p. Tier 6

q. Approximate quantity of meters/accounts on

s. Approximate total annual water usage (AF)

r. Are elevation charges included?

from customers on this rate schedule

this rate schedule

3

no

52.17

BMP 11: Conservation Pricing

Reporting Unit: BMP Form Status: Year: 2006 **Upper San Gabriel Valley MWD** 100% Complete 10.A. Wholesale Rate Schedule A Uniform a. Water Rate Structure Service Not Provided b. Sewer Rate Structure c. Total Revenue from only Volumetric Charges 5454363.64 d. Total Revenue from Non-Volumetric Charges (Includes fixed fees, surcharges, minimum usage 2833.5 charges, monthly service charges, meter charges 5457197.14 e. Total Revenue from this category 10.A. Rate Schedule - Volumetric Title: Full Service - Treated 12 f. Billing Cycles/year 0 g. Service Charges/Cycle 325850 h. Gallons/Bill Unit 56.67 i. Minimum Use/Cycle 0 j. Non-billed Units (included in monthly service charge) \$/Bill Unit Starting At (unit qty.) 484.23 k. Tier 1 585.03 16,511.6 I. Tier 2 m. Tier 3 n. Tier 4 o. Tier 5 p. Tier 6 q. Approximate quantity of meters/accounts on 8 this rate schedule r. Are elevation charges included? no s. Approximate total annual water usage (AF) 10981.3 from customers on this rate schedule

BMP 12: Conservation Coordinator

Reporting Unit: BMP Form Status: Year: Upper San Gabriel Valley MWD 100% Complete 2006

A. Implementation

- Does your Agency have a conservation coordinator?
- 2. Is a coordinator position supplied by another agency with which you cooperate in a regional conservation program?
 - a. Partner agency's name:
- 3. If your agency supplies the conservation coordinator:
 - a. What percent is this conservation coordinator's position?

90%

yes

b. Coordinator's Name

Elena Layugan

- c. Coordinator's Title Conservation Coordinator
- d. Coordinator's Experience in Number of

Years 14 Years

e. Date Coordinator's position was created (mm/dd/yyyy)

09/01/1992

4. Number of conservation staff (FTEs), including Conservation Coordinator.

1

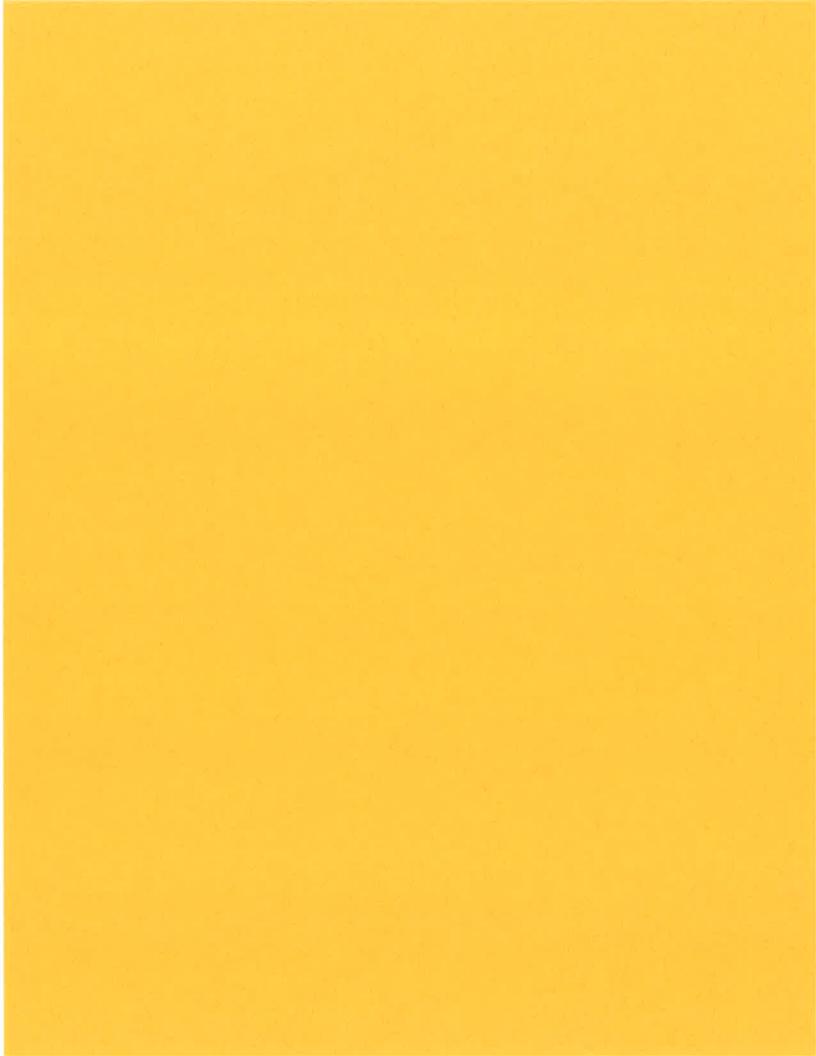
B. Conservation Staff Program Expenditures

- 1. Staffing Expenditures (In-house Only) 161098.61
- 2. BMP Program Implementation Expenditures 1595437.39

C. "At Least As Effective As"

- 1. Is your agency implementing an "at least as effective as" variant of this BMP?
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments



BMP 03 Coverage: System Water Audits, Leak **Detection and Repair**

Reporting Unit:

Reporting Period: 05-06

Upper San Gabriel Valley MWD

MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet one of two conditions to be in compliance with BMP 3:

Condition 1: Perform a prescreening audit. If the result is equal to or greater than 0.9 nothing more needs be done.

Condition 2: Perform a prescreening audit. If the result is less than 0.9, perform a full audit in accordance with AWWA's Manual of Water Supply Practices, Water Audits, and Leak Detection.

Test for Conditions 1 and 2

Report Year	Report Period	Pre-Screen Completed	Pre-Screen Result	Full Audit Indicated	Full Audit Completed
1999	99-00	NO			NO
2000	99-00	NO			NO
2001	01-02	NO			NO
2002	01-02	NO			NO
2003	03-04	NO			NO
2004	03-04	NO			NO
2005	05-06				
2006	05-06				
2007	07-08				
2008	07-08				

BMP 3 COVERAGE STATUS SUMMARY:

Water supplier is on track to meet the coverage requirements for this BMP.

Reported as of 12/5/08

BMP 07 Coverage: Public Information Programs

Reporting Unit: Upper San Gabriel Valley MWD Reporting Period: 05-06

No

MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency Indicated "at least as effective as" Implementation during report period?

An agency must meet one condition to comply with BMP 7.

Condition 1: Implement and maintain a public information program consistent with BMP 7's

Test for Condition 1

Year	Report Period	BMP 7 Implementation Year	RU Has Public Information Program?
1999	99-00	1	YES
2000	99-00	2	YES
2001	01-02	3	YES
2002	01-02	4	YES
2003	03-04	5	YES
2004	03-04	6	YES
2005	05-06	7	YES
2006	05-06	8	YES
2007	07-08	9	
2008	07-08	10	

BMP 7 COVERAGE STATUS SUMMARY:

Water supplier has met the coverage requirements for this BMP.

Reported as of 12/5/08

BMP 08 Coverage: School Education Programs

Reporting Period: 05-06 Reporting Unit: Upper San Gabriel Valley MWD

MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

Yes

An agency must meet one condition to comply with BMP 8.

Condition 1: Implement and maintain a school education program consistent with BMP 8's

Test for Condition 1

Year	Report Period	BMP 8 Implementation Year	RU Has School Education Program?
1999	99-00	1	NO
2000	99-00	2	NO
2001	01-02	3	NO
2002	01-02	4	NO
2003	03-04	5	NO
2004	03-04	6	NO
2005	05-06	7	YES
2006	05-06	8	YES
2007	07-08	9	
2008	07-08	10	

BMP 8 COVERAGE STATUS SUMMARY:

Water supplier has selected an "At Least As Effective As" option for this BMP.

Reported as of 12/5/08

BMP 11 Coverage: Conservation Pricing

Reporting Unit: Upper San Gabriel Valley MWD

Reporting Period: 05-06

Upper San Gabriel Valley MWD MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet one condition to comply with BMP 11.

Agency shall maintain rate structure consistent with BMP 11's definition of conservation

Implementation methods shall be at least as effective as eliminating non-conserving pricing and adopting conserving pricing. For signatories supplying both water and sewer service, this BMP applies to pricing of both water and sewer service. Signatories that supply water but not sewer service shall make good faith efforts to work with sewer agencies so that those sewer agencies adopt conservation pricing for sewer service.

- a) Non-conserving pricing provides no incentives to customers to reduce use. Such pricing is characterized by one or more of the following components: rates in which the unit price decreases as the quantity used increases (declining block rates);rates that involve charging customers a fixed amount per billing cycle regardless of the quantity used; pricing in which the typical bill is determined by high fixed charges and low commodity charges.
- b) Conservation pricing provides incentives to customers to reduce average or peak use, or both. Such pricing includes: rates designed to recover the cost of providing service; and billing for water and sewer service based on metered water use. Conservation pricing is also characterized by one or more of the following components: rates in which the unit rate is constant regardless of the quantity used (uniform rates) or increases as the quantity used increases (increasing block rates); seasonal rates or excess-use surcharges to reduce peak demands during summer months; rates based upon the longrun marginal cost or the cost of adding the next unit of capacity to the system.

Test for Condition 1

Year	Report Period	RU Employed Conserving WATER Rate Structure	RU Employed Conserving SEWER Rate Structure	RU Meets BMP 11 Coverage Requirement
1999	99-00	YES		
2000	99-00	YES		

BMP 11 COVERAGE STATUS SUMMARY:

Coverage period has not started for this water supplier.

Reported as of 12/5/08

1

BMP 12 Coverage: Conservation Coordinator

Reporting Unit: Reporting Period: Upper San Gabriel Valley MWD 05-06

MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency Indicated "at least as effective as" implementation during No

report period?

Agency shall staff and maintain the position of conservation coordinator and provide support staff as necessary.

Test for Compliance

Report Year Report Period		Conservation Coordinator Position Staffed?	Total Staff on Team (incl. CC)
1999	99-00	YES	1
2000	99-00	YES	1
2001	01-02	YES	1
2002	01-02	YES	1
2003	03-04	YES	1
2004	03-04	YES	1
2005	05-06	YES	1
2006	05-06	YES	1
2007	07-08		
2008	07-08		

BMP 12 COVERAGE STATUS SUMMARY:

Water supplier has met the coverage requirements for this BMP.

APPENDIX J.3 2007 California Urban Water Conservation Council Annual Reports and Coverage Reports

Water Supply & Reuse

Reporting Unit:		Year:
Upper San Gabriel Valley MWD		2007
Water Supply Source Information		
Supply Source Name	Quantity (AF) Supplied	Supply Type
Metropolitan Water District of Southern California	22151.25	Imported
Recycled	1430.03	Recycled

Total AF: 23581.28

Purchaser Information

Name of Agency	Quantity (AF) Supplied	Retailer or Wholesaler
Golden State Water Company, USG-1	459.1	retail
City of South Pasadena, USG-2	177.9	retail
Main San Gabriel Basin Watermaster, USG-3	7861.15	wholesale
Covina Irrigating Company, USG-3	0	retail
Suburban Water Systems, USG-4	9482.7	retail
Main SGB Watermaster/City of Alhambra, USG-5	2963.3	retail
City of Arcadia, USG-6	0	retail
City of Monrovia, USG-7	0	retail
City of Azusa, USG-8	1207	retail
Valley County Water District, USG-9	.1	retail
San Gabriel Valley Water Co., Recycled	1430.03	retail

Total AF: 23581.28

Year:

2007

no

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit: BMP Form Status: Upper San Gabriel Valley MWD 100% Complete

A. Implementation

Does your agency own or operate a water distribution system?

AGENCY DOES NOT OWN OR OPERATE A WATER DISTRIBUTION SYSTEM

BMP 07: Public Information Programs

Reporting Unit: BMP Form Status: Year: Upper San Gabriel Valley MWD 100% Complete 2007

A. Implementation

1. How is your public information program implemented?

Wholesaler implements program (none or minimal retailer participation)

2. Describe the program and how it's organized:

USGVMWD's has a Community and Government Affairs Coordinator on staff that maintains the District*s active public information program in an effort to promote and educate the public about water conservation and relevant water issues. USGVMWD offers an array of conservation brochures, children's activity booklets, public outreach displays, oral presentations and workshops. Numerous press releases, advertisements, presentations and PSAs are also used to highlight water efficient projects and to raise awareness about water conservation efforts and local water issues. USGVMWD also has a website that provides information about the agency, projects, local water issues and some educational materials. USGVMWD's annual WaterFest drew approximately 6,000 attendees of all ages. USGVMWD utilitizes the festival to reach out to the community and raise public awareness about water conservation, water quality, and other relevant water issues. District informational booths were hosted at three other events during the fiscal year. The District co-hosted, with the Forest Service, four (4) Watershed Restoration events that educate participating volunteers about the link between their forest and local water supply. A number of water efficient landscape workshops were offered to the public: 4 professional landscaper classes (English), 4 professional landscaper classes (Spanish), 2 plant identification classes (English), 2 plant identification classes (Spanish) and 2 residential gardener classes. One (1) tour of local water facilities was also hosted by the Upper District. USGVMWD is a member agency of Metropolitan Water District of Southern California (MWDSC) and, therefore, the public within the USGVMWD boundaries also benefits from the extensive public information materials, advertisements, programs and efforts that they provide. Co-funding from USGVMWD in the amount of \$18,500 was provided, along with funds from MWDSC, for several community projects that applied through MWD's Community Partnership Program.

3. Indicate which and how many of the following activities are included in your public information program:

Region-Wide Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	yes	39
b. Public Service Announcement	no	
c. Bill Inserts / Newsletters / Brochures	no	
d. Bill showing water usage in comparison to previous year's usage	no	
e. Demonstration Gardens	no	
f. Special Events, Media Events	yes	8

g. Speaker's Bureau yes 5

h. Program to coordinate with other government agencies, industry and public interest groups and media

B. Conservation Information Program Expenditures

1. Annual Expenditures (Excluding Staffing)

279378.33

yes

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?

No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

BMP 08: School Education Programs

Reporting Unit:

BMP Form Status:

Year:

Upper San Gabriel Valley MWD

100% Complete

2007

A. Implementation

1. How is your public information program implemented?

Wholesaler implements program (none or minimal retailer participation)

2. Please provide information on your region-wide school programs (by grade level):

a	Grade	Are grade- appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops
	Grades K-3rd	yes	1	238	0
	Grades 4th-6th	yes	1	29	0
	Grades 7th-8th	yes	0	0	0
	High School	yes	0	0	0
	4. Did your Agend requirements?	y's materials me	et state education	on framework	yes
	5. When did your	Agency begin im	plementing this p	orogram?	9/1/1992
В.	School Educa	tion Progran	n Expenditur	es	
	1. Annual Expendi	tures (Excluding	Staffing)		72205.23

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?

No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

USGVMWD also offered the following school education programs: ~ Water Awareness Art Contests: In an effort to raise awareness of water issues among children, USGVMWD sponsors an annual poster art contests for grades K - 3rd and 4th - 6th. The five winning posters for each category receive monetary awards and are printed into sheets of stickers. Five (5) winning posters are then submitted as USGVMWD's entries in MWDSC's poster art contest. USGVMWD also sponsors a t-shirt art contest for grades 7th - 12th in which the top five selections receive monetary awards, with the top two designs printed onto t-shirts and the top five (5) entries submitted to MWDSC's upper grade art contest. A total of 108 student entries were received during the FY 06-07 for the art contest. ~ Solar Cup Competition: USGVMWD sponsored four (4) high school teams in MWDSC's Solar Cup Competition, which provides high school students the opportunity to build solar powered boats that compete in race and endurance categories. The program offers student participants an opportunity to learn about natural resources, the development/use of alternative fuel sources and protection of water quality. ~ Water Education Grant Program: USGVMWD sponsors a water

education grant program that offers teachers and/or schools within the District boundaries grants of up to \$1,000 to fund water-related educational projects. Eight (8) grants, totaling \$7,303.85 were funded for the FY 06-07. The projects are estimated to involve over 455 students from grades K-12. ~ Water Resource Library: USGVMWD also maintains an onsite library offering a variety of current water education materials for all ages. Resources available for loan include activity books, textbooks, videotapes and computer software. These educational resources are different than the materials offered through MWDSC's educational program, giving local schools access to a wider range of water education resources. ~ Water Educational Posters: Posters are in English, Spanish and Chinese and cover topics such as: hydrological cycle, recycled water, native plants, watershed, water pollution and water saving tips. USGVMWD is also a member agency of the Metropolitan Water District of Southern California (MWDSC), which has an extensive education program that offers age/grade-appropriate materials to all schools within the MWDSC territory, including ALL schools within USGVMWD's boundaries. MWDSC provides an active school education program that promotes water conservation and water conservation related benefits. Its educational program includes working with school districts and private schools within its boundaries to: provide instructional assistance, educational materials, and classroom presentations that identify urban, agricultural, and environmental issues and conditions in the local watershed. MWDSC's educational materials meet state education framework requirements and are grade appropriate materials that are offered to all grade levels K - 12th. Since USGVMWD is a member agency of MWDSC, all schools within USGVMWD's boundaries are covered under MWDSC's area and are offered these educational programs and materials. MWDSC documents and reports on their education efforts to the CUWCC.

BMP 10: Wholesale Agency Assistance Programs

Reporting Unit:

BMP Form Status:

Year:

Upper San Gabriel Valley MWD

100% Complete

2007

yes

A. Implementation

1. Financial Support by BMP

вмР 1	Financial Incentives Offered? No			BMP 8	Financial Incentives Offered? No	Budgeted Amount	
2	yes	30000	5629	9	yes	175000	188265
3	No			10	No		
4	No			11	No		
5	yes	2000000	228548	12	No		
6	yes	195000	162095	13	No		
7	No			14	yes	960000	730112

2. Technical Support

a. Has your agency conducted or funded workshops addressing CUWCC procedures for calculating program savings, costs and cost-effectiveness?	No
b. Has your agency conducted or funded workshops addressing retail agencies' BMP implementation reporting requirements?	No
c. Has your agency conducted or funded workshops addressing:	
1) ULFT replacement	No
2) Residential retrofits	No
3) Commercial, industrial, and institutional surveys	No

4) Residential and large turf irrigation

3. Staff Resources by BMP

ВМР	Qualified Staff Available for BMP?	No. FTE Staff Assigned to BMP	ВМР	Qualified Staff Available for BMP?	No. FTE Staff Assigned to BMP	
1	No		8	No		
2	No		9	No		
3	No		10	yes	1	
4	No		11	No		
5	No		12	No		
6	No		13	No		
7	yes	1	14	No		

4. Regional Programs by BMP

вмР	Implementation/ Management Program?	вмр	Implementation/ Management Program?	
1	No	8	yes	
2	No	9	yes	
3	No	10	yes	
4	No	11	No	
5	yes	12	yes	
6	yes	13	yes	

B. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?

No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

C. Comments

Residential High Efficiency Clothes Washers (HECW) Rebate Program ~ The Upper Districtle Residential High Efficiency Clothes Washer (HECW) Rebate Program provides rebates to residential customers within the District boundaries, for the purchase and installation of a qualifying HECW. This rebate provides a much-needed incentive to encourage consumers to select HECWs over the lower-costing, less-efficient models of washers. An estimated 704 rebates will have been provided for High Efficiency Clothes Washers during the FY 06-07, which will result in an estimated lifetime water savings of approximately 291.53 acre-feet of water. High Efficiency Toilets (HETS) ~ The HET giveaway program utilizes local schools and/or community groups to assist in implementing the program. The proposed HET Retrofit Program would enable eligible residents, living within the Upper District boundaries, to receive up to two (2) HETs per household free of charge. Quantities will be given away on a first come, first serve basis, 2,168 High Efficiency Toilets (HETs) were distributed by the District during the FY 06-07, which will result in a lifetime savings of approximately 1,844,80 acre feet of water. CII Water Conservation Rebate Program ~ The CII Water Conservation Rebate Program offers commercial, industrial, and institutional facilities, within District boundaries, rebates for retrofitting numerous types of high water-use fixtures/equipment with efficient water-use fixtures/equipment. Retrofits conducted during the 06-07 fiscal year are estimated to result in another 2,088.13 acre feet of lifetime water savings. Synthetic Turf Retrofit Program ~ The Synthetic Turf Retrofit Program involved the removal of existing, irrigated natural turf from two (2) school sport fields and replacing the areas with synthetic turf. The retrofitting of these fields will not only reduce water consumption, but also result in the discontinuation of fertilizer and pesticides used for those fields, thereby reducing the amount of nitrates and chemicals saturating the ground. The discontinuation of powered lawnmowers on those fields will also mean reductions in air pollution and noise pollution. With an estimated lifespan of 10 years for the synthetic turf, the estimated lifetime savings of this project is 230.64 acre feet. Other Residential Devices Distributed ~ 5,000 low flow showerheads were distributed, providing an estimated lifetime water savings of 85 acre feet. 3,800 aerators were also distributed that will have an approximate lifetime water savings of 12.92 acre feet. Working in Conjunction with MWDSC ~ As a member agency of the Metropolitan Water District of Southern California's (MWDSC), USGVMWD is able to combine MWDSC's programs and services with its own conservation programs to provide effective Wholesale Agency Assistance for local water retailers. MWDSC offers staff, resources and workshops to assist with technical, programmatic, strategic or other pertinent issues and developments associated with water conservation activities and supplement USGVMWD's conservation efforts for the region as well as to its various retailers.

BMP 11: Conservation Pricing

Reporting Unit:

BMP Form Status:

Year:

0% Complete

2007

A. Implementation

Water Service Rate Structure Data by Customer Class

- 1. Single Family Residential
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0

(Volumetric Rates)

- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges
- 2. Multi-Family Residential
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0 (Volumetric Rates)
- c. Total Revenue from Customer Meter/Service \$ 0(Fixed) Charges
- 3. Commercial
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0 (Volumetric Rates)
- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges
- 4. Industrial
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0(Volumetric Rates)
- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges
- 5. Institutional / Government
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0(Volumetric Rates)
- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges
- 6. Dedicated Irrigation (potable)
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0 (Volumetric Rates)
- c. Total Revenue from Customer Meter/Service \$ (Fixed) Charges
- 7. Recycled-Reclaimed
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0 (Volumetric Rates)

- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges
- 8. Raw
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0 (Volumetric Rates)
- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges
- 9. Other
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0 (Volumetric Rates)
- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges

B. Implementation Options

Select Either Option 1 or Option 2:

1. Option 1: Use Annual Revenue As Reported

V/(V+M) >= 70%

V = Total annual revenue from volumetric rates

M = Total annual revenue from customer meter/service (fixed) charges

2. Option 2: Use Canadian Water & Wastewater Association Rate Design Model

V/(V+M) >= V'/(V'+M')

V = Total annual revenue from volumetric rates

M = Total annual revenue from customer meter/service (fixed) charges

 $\ensuremath{\mathsf{V}}$ = The uniform volume rate based on the signatory's long-run incremental cost of service

M = The associated meter charge

- a. If you selected Option 2, has your agency submitted to the Council a completed Canadian Water & Wastowater Association rate design model?
- & Wastewater Association rate design model?
- b. Value for **V'** (uniform volume rate based on agency's long-run incremental cost of service) as determined by the Canadian Water & Wastewater Association rate design model:
- c. Value for **M'** (meter charge associated with V' uniform volume rate) as determined by the Canadian Water & Wastewater Association rate design model:

C. Retail Wastewater (Sewer) Rate Structure Data by Customer Class

1. Does your agency provide sewer service? (If YES, answer questions 2 - 7 below, else continue to section D.)

2. Single Family Residential

- a. Sewer Rate Structure
- b. Total Annual Revenue

\$ 0

c. Total Revenue from Commodity \$ 0 Charges (Volumetric Rates)

3. Multi-Family Residential

a. Sewer Rate Structure	
b. Total Annual Revenue	\$0
c. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
4. Commercial	
a. Sewer Rate Structure	
b. Total Annual Revenue	\$0
c. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
5. Industrial	
a. Sewer Rate Structure	
b. Total Annual Revenue	\$0
c. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
6. Institutional / Government	
a. Sewer Rate Structure	
b. Total Annual Revenue	\$ 0
c. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
7. Recycled-reclaimed water	
a. Sewer Rate Structure	
b. Total Annual Revenue	\$0
c. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0

D. "At Least As Effective As"

- 1. Is your agency implementing an "at least as effective as" variant of this BMP?
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

BMP 12: Conservation Coordinator

Reporting Unit: BMP Form Status: Year: Upper San Gabriel Valley MWD 100% Complete 2007

A. Implementation

1. Does your Agency have a conservation coordinator? yes

2. Is a coordinator position supplied by another agency with which no you cooperate in a regional conservation program?

a. Partner agency's name:

3. If your agency supplies the conservation coordinator:

a. What percent is this conservation coordinator's position?

90%

b. Coordinator's Name

Elena Layugan

c. Coordinator's Title

Conservation Coordinator

d. Coordinator's Experience in Number of

Years

15 Years

e. Date Coordinator's position was created (mm/dd/yyyy)

09/01/1992

4. Number of conservation staff (FTEs), including Conservation Coordinator.

1

B. Conservation Staff Program Expenditures

1. Staffing Expenditures (In-house Only) 2

299232.11

2. BMP Program Implementation Expenditures

1769113.91

C. "At Least As Effective As"

1. Is your agency implementing an "at least as effective as" variant of this BMP?

no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

APPENDIX J.4 2008 California Urban Water Conservation Council Annual Reports and Coverage Reports

Water Supply & Reuse

Reporting Unit: Upper San Gabriel Valley MWD		Year: 2008
Water Supply Source Information		
Supply Source Name	Quantity (AF) Supplied	Supply Type
Metropolitan Water District of Southern California	38561.73	Imported
Recycled	1700.93	Recycled

Total AF: 40262.66

Purchaser Information

Name of Agency	Quantity (AF) Supplied	Retailer or Wholesaler
Golden State Water Company (USG-1)	284.2	retail
City of South Pasadena (USG-2)	458.2	retail
Main San Gabriel Basin Watermaster (USG-3)	21603.83	wholesale
Covina Irrigating Company (USG-3)	7350.9	retail
Suburban Water Systems (USG-4)	5405.8	retail
Main SGB Watermaster/City of Alhambra (USG-5)	3027.2	retail
City of Arcadia (USG-6)	95.3	retail
City of Monrovia (USG-7)	0	retail
City of Azusa (USG-8)	336.3	retail
Valley County Water District (USG-9)	0	retail
San Gabriel Valley Water Co. (Recycled)	1700.93	retail

Total AF: 40262.66

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit:

BMP Form Status:

Year:

Upper San Gabriel Valley MWD

100% Complete

2008

A. Implementation

1. Does your agency own or operate a water distribution system?

no

AGENCY DOES NOT OWN OR OPERATE A WATER DISTRIBUTION SYSTEM

BMP 07: Public Information Programs

Reporting Unit: BMP Form Status: Year: Upper San Gabriel Valley MWD 100% Complete 2008

A. Implementation

1. How is your public information program implemented?

Wholesaler implements program (none or minimal retailer participation)

2. Describe the program and how it's organized:

USGVMWD's has a Community and Government Affairs Coordinator on staff that maintains the Districtls active public information program in an effort to promote and educate the public about water conservation and relevant water issues. USGVMWD offers an array of conservation brochures, children's activity booklets, public outreach displays, oral presentations and workshops. Numerous press releases, advertisements, presentations and PSAs are also used to highlight water efficient projects and to raise awareness about water conservation efforts and local water issues. USGVMWD also has a website that provides information about the agency, projects, local water issues and some educational materials. USGVMWD's annual WaterFest drew approximately 8,000 attendees of all ages. USGVMWD utilitizes the festival to reach out to the community and raise public awareness about water conservation, water quality, and other relevant water issues. District informational booths were hosted at three other events during the fiscal year. The District co-hosted, with the Forest Service, three (3) Watershed Restoration events that educate participating volunteers about the link between their forest and local water supply. USGVMWD also co-hosted an Earth Day event with Central Basin Municipal Water District. A number of water efficient landscape workshops were offered to the public: 4 professional landscaper classes (English) and 2 plant identification classes (English). One (1) tour of local water facilities was also hosted by the Upper District. USGVMWD is a member agency of Metropolitan Water District of Southern California (MWDSC) and, therefore, the public within the USGVMWD boundaries also benefits from the extensive public information materials, advertisements, programs and efforts that they provide.

3. Indicate which and how many of the following activities are included in your public information program:

Region-Wide Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	yes	27
b. Public Service Announcement	yes	1
c. Bill Inserts / Newsletters / Brochures	no	
d. Bill showing water usage in comparison to previous year's usage	no	
e. Demonstration Gardens	yes	1
f. Special Events, Media Events	yes	10
g. Speaker's Bureau	yes	2

h. Program to coordinate with other government agencies, industry and public interest groups and media yes

B. Conservation Information Program Expenditures

1. Annual Expenditures (Excluding Staffing)

303264.27

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?

No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

BMP 08: School Education Programs

Reporting Unit:

BMP Form Status:

Year:

Upper San Gabriel Valley MWD

100% Complete

2008

A. Implementation

1. How is your public information program implemented?

Wholesaler implements program (none or minimal retailer participation)

2. Please provide information on your region-wide school programs (by grade level):

	Grade	Are grade- appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops
	Grades K-3rd	yes	0	0	0
	Grades 4th-6th	yes	8	120	0
	Grades 7th-8th	yes	0	0	0
	High School	yes	0	0	0
	requirements?		eet state educatio		yes
	5. When did your	Agency begin in	nplementing this p	rogram?	9/1/1992
В	. School Educ	ation Prograr	n Expenditure	es	
	1. Annual Expend	ditures (Excluding	Staffing)		50189.1
_		F-66 41 A - 11			

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?

No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

USGVMWD also offered the following school education programs and materials: ~ Water Awareness Art Contests: In an effort to raise awareness of water issues among children, USGVMWD sponsors an annual poster art contests for grades K - 3rd and 4th - 6th. The five winning posters for each category receive monetary awards and are printed into sheets of stickers. Five (5) winning posters are then submitted as USGVMWD's entries in MWDSC's poster art contest. USGVMWD also sponsors a t-shirt art contest for grades 7th - 12th in which the top five selections receive monetary awards, with the top two designs printed onto t-shirts and the top five (5) entries submitted to MWDSC's upper grade art contest. A total of 201 entries were received during the FY 07-08 for the art contest. ~ Solar Cup Competition: USGVMWD sponsored five (5) high school teams in MWDSC's Solar Cup Competition, which provides high school students the opportunity to build solar powered boats that compete in race and endurance categories. The program offers student participants an opportunity to learn about natural resources, the development/use of alternative fuel sources and protection of water quality. ~ Water Education Grant Program: USGVMWD sponsors a water

education grant program that offers teachers and/or schools within the District boundaries grants of up to \$1,000 to fund water-related educational projects. Four (4) grants, totaling \$4,000 were funded for the FY 07-08. The projects are estimated to involve over 178 students from grades K-12. ~ Water Resource Library: USGVMWD also maintains an onsite library offering a variety of current water education materials for all ages. Resources available for loan include activity books, textbooks, videotapes and computer software. These educational resources are different than the materials offered through MWDSC's educational program, giving local schools access to a wider range of water education resources. ~ Water Educational Posters: Posters are in English, Spanish and Chinese and cover topics such as: hydrological cycle, recycled water, native plants, watershed, water pollution and water saving tips. USGVMWD is also a member agency of the Metropolitan Water District of Southern California (MWDSC), which has an extensive education program that offers age/grade-appropriate materials to all schools within the MWDSC territory, including ALL schools within USGVMWD's boundaries. MWDSC provides an active school education program that promotes water conservation and water conservation related benefits. Its educational program includes working with school districts and private schools within its boundaries to: provide instructional assistance, educational materials, and classroom presentations that identify urban, agricultural, and environmental issues and conditions in the local watershed. MWDSC's educational materials meet state education framework requirements and are grade appropriate materials that are offered to all grade levels K - 12th. Since USGVMWD is a member agency of MWDSC, all schools within USGVMWD's boundaries are covered under MWDSC's area and are offered these educational programs and materials. MWDSC documents and reports on their education efforts to the CUWCC.

BMP 10: Wholesale Agency Assistance Programs

Reporting Unit:

BMP Form Status:

Year:

Upper San Gabriel Valley MWD

100% Complete

2008

A. Implementation

1. Financial Support by BMP

вмр 1	Financial Incentives Offered? No			BMP	Financial Incentives Offered? No			
2	yes	50000	0	9	yes	200000	56223	
3	No			10	No			
4	No			11	No			
5	yes	150000	85472	12	No			
6	yes	175000	228907	13	No			
7	No			14	yes	550000	542367	

2. Technical Support

a. Has your agency conducted or funded workshops addressing CUWCC procedures for calculating program savings, costs and cost-effectiveness?	No
b. Has your agency conducted or funded workshops addressing retail agencies' BMP implementation reporting requirements?	No
c. Has your agency conducted or funded workshops addressing:	
1) ULFT replacement	No
2) Residential retrofits	No
3) Commercial, industrial, and institutional surveys	No
4) Residential and large turf irrigation	yes

3. Staff Resources by BMP

вмР	Qualified Staff Available for BMP?	No. FTE Staff Assigned to BMP	ВМР	Qualified Staff Available for BMP?	No. FTE Staff Assigned to BMP	
1	No		8	No		
2	No		9	No		
3	No		10	yes	1	
4	No		11	No		
5	No		12	No		
6	No		13	No		
7	yes	1	14	No		

4. Regional Programs by BMP

вмР	Implementation/ Management Program?	вмР	Implementation/ Management Program?
1	No	8	yes
2	No	9	yes
3	No	10	yes
4	No	11	No
5	yes	12	yes
6	yes	13	yes

B. "At Least As Effective As"

 Is your AGENCY implementing an "at least as effective as" variant of this BMP?

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

C. Comments

Residential High Efficiency Clothes Washers (HECW) Rebate Program ~ The Upper DistrictÃs Residential High Efficiency Clothes Washer (HECW) Rebate Program provides rebates to residential customers within the District boundaries, for the purchase and installation of a qualifying HECW. This rebate provides a much-needed incentive to encourage consumers to select HECWs over the lower-costing, less-efficient models of washers. An estimated 966 rebates will have been provided for High Efficiency Clothes Washers during the FY 07-08, which will result in an estimated lifetime water savings of approximately 400.03 acre feet of water. High Efficiency Toilets (HETS) ~ The HET giveaway program utilizes local schools and/or community groups to assist in implementing the program. The proposed HET Retrofit Program would enable eligible residents, living within the Upper District boundaries, to receive up to two (2) HETs per household free of charge. Quantities will be given away on a first come, first serve basis, 2,298 High Efficiency Toilets (HETs) were distributed by the District during the FY 07-08, which will result in a lifetime savings of approximately 1,955,41 acre feet of water. CII Water Conservation Rebate Program ~ The CII Water Conservation Rebate Program offers commercial, industrial, and institutional facilities, within District boundaries, rebates for retrofitting numerous types of high water-use fixtures/equipment with efficient water-use fixtures/equipment. Retrofits conducted during the 07-08 fiscal year are estimated to result in another 1,410.37 acre feet of lifetime water savings. Synthetic Turf Retrofit Program ~ The Synthetic Turf Retrofit Program involved the removal of existing, irrigated natural turf from one (1) school sport field and replacing the areas with synthetic turf. The retrofitting of these fields will not only reduce water consumption, but also result in the discontinuation of fertilizer and pesticides used for those fields, thereby reducing the amount of nitrates and chemicals saturating the ground. With an estimated lifespan of 10 years for the synthetic turf, the estimated lifetime water savings of this project is 115.32 acre feet. Other Residential Devices Distributed ~ 1,500 low flow showerheads were distributed, providing an estimated lifetime water savings of 25.5 acre feet. 1,200 aerators were also distributed that will have an approximate lifetime water savings of 4.08 acre feet. Working in Conjunction with MWDSC ~ As a member agency of the Metropolitan Water District of Southern California's (MWDSC), USGVMWD is able to combine MWDSC's programs and services with its own conservation programs to provide effective Wholesale Agency Assistance for local water retailers. MWDSC offers staff, resources and workshops to assist with technical, programmatic, strategic or other pertinent issues and developments associated with water conservation activities and supplement USGVMWD's conservation efforts for the region as well as to its various retailers.

No

BMP 11: Conservation Pricing

Reporting Unit:

BMP Form Status:

Year:

0% Complete

2008

A. Implementation

Water Service Rate Structure Data by Customer Class

- 1. Single Family Residential
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0 (Volumetric Rates)
- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges
- 2. Multi-Family Residential
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0 (Volumetric Rates)
- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges
- 3. Commercial
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0 (Volumetric Rates)
- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges
- 4. Industrial
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0 (Volumetric Rates)
- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges
- 5. Institutional / Government
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0 (Volumetric Rates)
- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges
- 6. Dedicated Irrigation (potable)
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0 (Volumetric Rates)
- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges
- 7. Recycled-Reclaimed
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0 (Volumetric Rates)

- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges
- 8. Raw
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0(Volumetric Rates)
- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges
- 9. Other
- a. Rate Structure
- b. Total Revenue from Commodity Charges \$ 0 (Volumetric Rates)
- c. Total Revenue from Customer Meter/Service \$ 0 (Fixed) Charges

B. Implementation Options

Select Either Option 1 or Option 2:

1. Option 1: Use Annual Revenue As Reported

V/(V+M) >= 70%

V = Total annual revenue from volumetric rates

M = Total annual revenue from customer meter/service (fixed) charges

2. Option 2: Use Canadian Water & Wastewater Association Rate Design Model

V/(V+M) >= V'/(V'+M')

V = Total annual revenue from volumetric rates

M = Total annual revenue from customer meter/service (fixed) charges

V = The uniform volume rate based on the signatory's long-run incremental cost of service

M' = The associated meter charge

- a. If you selected Option 2, has your agency submitted to the Council a completed Canadian Water
- & Wastewater Association rate design model?
- b. Value for V' (uniform volume rate based on agency's long-run incremental cost of service) as determined by the Canadian Water & Wastewater Association rate design model:
- c. Value for **M'** (meter charge associated with V' uniform volume rate) as determined by the Canadian Water & Wastewater Association rate design model:

C. Retail Wastewater (Sewer) Rate Structure Data by Customer Class

1. Does your agency provide sewer service? (If YES, answer questions 2 - 7 below, else continue to section D.)

2. Single Family Residential

- a. Sewer Rate Structure
- b. Total Annual Revenue

\$ 0

c. Total Revenue from Commodity \$ 0

Charges (Volumetric Rates)

3. Multi-Family Residential

a. Sewer Rate Structure	
b. Total Annual Revenue	\$ 0
c. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
4. Commercial	
a. Sewer Rate Structure	
b. Total Annual Revenue	\$0
c. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
5. Industrial	
a. Sewer Rate Structure	
b. Total Annual Revenue	\$ 0
c. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
6. Institutional / Government	
a. Sewer Rate Structure	
b. Total Annual Revenue	\$0
c. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
7. Recycled-reclaimed water	
a. Sewer Rate Structure	
b. Total Annual Revenue	\$ 0
c. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0

D. "At Least As Effective As"

- 1. Is your agency implementing an "at least as effective as" variant of this BMP?
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

BMP 12: Conservation Coordinator

Reporting Unit: BMP Form Status: Year: Upper San Gabriel Valley MWD 100% Complete 2008

A. Implementation

Does your Agency have a conservation coordinator?

yes

2. Is a coordinator position supplied by another agency with which you cooperate in a regional conservation program?

no

a. Partner agency's name:

3. If your agency supplies the conservation coordinator:

a. What percent is this conservation coordinator's position?

90%

b. Coordinator's Name

Elena Layugan

c. Coordinator's Title

Conservation Coordinator

d. Coordinator's Experience in Number of Years

16 Years

e. Date Coordinator's position was created (mm/dd/yyyy)

09/01/1992

4. Number of conservation staff (FTEs), including Conservation Coordinator.

1

B. Conservation Staff Program Expenditures

1. Staffing Expenditures (In-house Only)

269724.22

2. BMP Program Implementation Expenditures

1297599.5

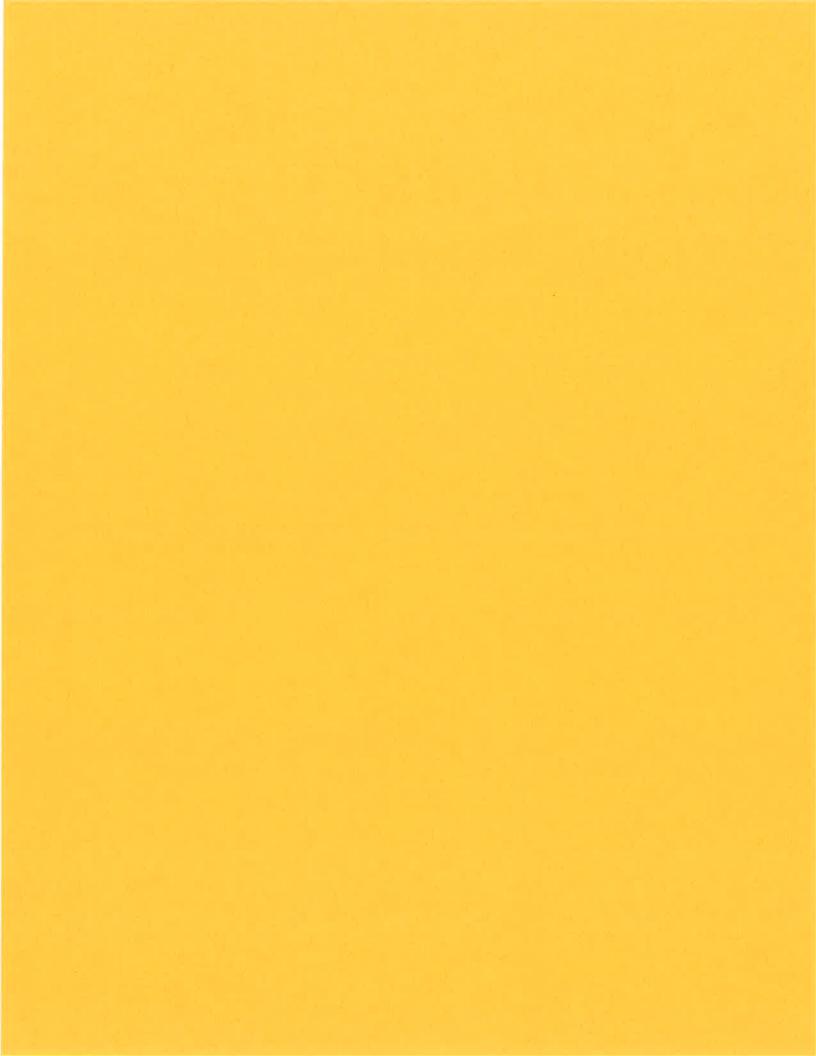
C. "At Least As Effective As"

1. Is your agency implementing an "at least as effective as" variant of this BMP?

no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments



BMP 03 Coverage: System Water Audits, Leak Detection and Repair

Reporting Unit:

Reporting Period: 07-08

Upper San Gabriel Valley MWD

MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet one of two conditions to be in compliance with BMP 3:

Condition 1: Perform a prescreening audit. If the result is equal to or greater than 0.9 nothing more needs be done,

Condition 2: Perform a prescreening audit, If the result is less than 0.9, perform a full audit in accordance with AWWA's Manual of Water Supply Practices, Water Audits, and Leak Detection.

Test for Conditions 1 and 2

Report Year	Report Period	Pre-Screen Completed	Pre-Screen Result	Full Audit Indicated	Full Audit Completed
1999	99-00	NO			NO
2000	99-00	NO			NO
2001	01-02	NO			NO
2002	01-02	NO			NO
2003	03-04	NO			NO
2004	03-04	NO			NO
2005	05-06				
2006	05-06				
2007	07-08				
2008	07-08				

BMP 3 COVERAGE STATUS SUMMARY:

Water supplier is on track to meet the coverage requirements for this BMP.

BMP 07 Coverage: Public Information Programs

Reporting Period: Reporting Unit:

Upper San Gabriel Valley MWD

MOU Exhibit 1 Coverage Requirement No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

07-08

An agency must meet one condition to comply with BMP 7.

Condition 1: Implement and maintain a public information program consistent with BMP 7's definition.

Test for Condition 1

Year	Report Period	BMP 7 Implementation Year	RU Has Public Information Program?
1999	99-00	1	YES
2000	99-00	2	YES
2001	01-02	3	YES
2002	01-02	4	YES
2003	03-04	5	YES
2004	03-04	6	YES
2005	05-06	7	YES
2006	05-06	8	YES
2007	07-08	9	YES
2008	07-08	10	YES

BMP 7 COVERAGE STATUS SUMMARY:

Water supplier has met the coverage requirements for this BMP.

BMP 08 Coverage: School Education Programs

Reporting Unit:

Reporting Period:

Upper San Gabriel Valley MWD

07-08

MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet one condition to comply with BMP 8.

Condition 1: Implement and maintain a school education program consistent with BMP 8's definition.

Test for Condition 1

Year	Report Period	BMP 8 Implementation Year	RU Has School Education Program?
1999	99-00	1	NO
2000	99-00	2	NO
2001	01-02	3	NO
2002	01-02	4	NO
2003	03-04	5	NO
2004	03-04	6	NO
2005	05-06	7	YES
2006	05-06	8	YES
2007	07-08	9	YES
2008	07-08	10	YES

BMP 8 COVERAGE STATUS SUMMARY:

Water supplier has met the coverage requirements for this BMP.

BMP 11 Coverage: Conservation Pricing

Reporting Unit:

Reporting Period:

Upper San Gabriel Valley MWD

07-08

MOU Exhibit 1 Coverage Requirement

Agency indicated "at least as effective as" implementation during report period?

Per June 13, 2007 revision, an agency must meet one condition to comply with BMP 11.

Condition 1: Agency shall maintain rate structure consistent with BMP 11's definition of conservation pricing. If agency provides retail sewer service, agency shall maintain rate structure for sewer service consistent with definition of conservation pricing for sewer service in Part II, Section in A.

Water Service

- Agencies signing the MOU prior to June 13, 2007, implementation shall commence no later than July 1, 2007.
 Agencies signing the MOU after June 13, 2007, implementation shall commence no later than July 1 of the year following the year the Agency signed the MOU.

- Agencies signing the MOU prior to December 31, 1997, implementation shall commence no later than July 1, 2008.
- Agencies signing the MOU or becoming subject to the MOU after December 31, 1997, implementation shall commence no later than July 1 of the first year following the year the agency signed or became subject to the MOU.

Test for Condition 1

Agency is Fully Metered

Agency Employed Conserving WATER Rate Structure

Agency Provides Sewer Service

Agency Employed Conserving SEWER Rate Structure

BMP 11 WATER COVERAGE STATUS SUMMARY:

BMP 11 SEWER COVERAGE STATUS SUMMARY:

BMP 12 Coverage: Conservation Coordinator

Reporting Unit:

Reporting Period:

Upper San Gabriel Valley MWD

07-08

MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

Agency shall staff and maintain the position of conservation coordinator and provide support staff as necessary.

Test for Compliance

Report Year	Report Period	Conservation Coordinator Position Staffed?	Total Staff on Team (incl. CC)
1999	99-00	YES	1
2000	99-00	YES	1
2001	01-02	YES	1
2002	01-02	YES	1
2003	03-04	YES	1
2004	03-04	YES	1
2005	05-06	YES	1
2006	05-06	YES	1
2007	07-08	YES	1
2008	07-08	YES	1

BMP 12 COVERAGE STATUS SUMMARY:

Water supplier has met the coverage requirements for this BMP.

APPENDIX K
Upper San Gabriel Valley
Municipal Water District's
Rate Schedule Resolution

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III

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RESOLUTION NO. 10-09-471

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT REPEALING RESOLUTION NO. 2-09-465 AND ADOPTING WATER RATES AND CHARGES EFFECTIVE OCTOBER 1, 2009

WHEREAS, the Metropolitan Water District of Southern California ("MWD" herein) has adopted water rates and charges for its classes and conditions of service effective September 1, 2009 and this Upper San Gabriel Valley Municipal Water District ("Upper District" herein) wishes to reflect MWD's new rates and charges in the water rates and charges of the Upper District; and

WHEREAS, MWD has established charges in their rate structure including a Readiness-to-Serve Charge, Capacity Charge, Tier 1 and 2 commodity charges; and

WHEREAS, Upper District requested that MWD continue its Standby Charge in Upper District's service area with the intention that the above referenced Readiness-to-Serve charge be paid from the funds generated from said Standby Charge for calendar years 2009 and 2010; and

WHEREAS, during Fiscal year 1991/92 Upper District entered into an agreement with MWD for the enlargement of the discharge valve on Service Connection USG-3. As part of this agreement, MWD will charge Upper District an additional \$2.00 per acre foot for all water delivered through this enlarged discharge valve. It is the intention of Upper District to incorporate this \$2.00 per acre foot charge into the rate established for delivery through Service Connection USG-3; and

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT as follows:

Section 1. Resolution No. 2-09-465 adopted February 17, 2009, is hereby repealed.

Section 2. Effective October 1, 2009, the following water rates are established and will remain effective through December 31, 2010:

Class of Service	Rate per Acre Foot
Full Service – Treated (Tier 1)	\$797.00
Full Service – Treated (Tier 2)	\$926.00
Groundwater Replenishment Service – Untreated	\$386.00
Full Service – Untreated (Tier 1)	\$526.00
Full Service – Untreated (Tier 2)	\$655.00
Recycled Water Service	By Contract
Excess Annual Capacity Charge	\$7,200 per CFS
Minimum Service Connection Charge (per year)	\$720.00
Groundwater Replenishment Ready-to-Serve Charge	\$42 per CFS/\$6,300 per month

Section 3. Description of Service Classes:

Full Service Treated (Tier 1)

For Calendar Years 2009 and 2010 the Upper District had an original allocation of Full Service Tier 1 supply of 16,511.6 acre feet per year for water deliveries that would be sold at a rate of \$797.00 per acre foot effective October 1, 2009. As of July 1, 2009, Metropolitan Water District has implemented a Water Shortage Allocation Plan that may reduce the District's allocation amount. Subject to the impact of that allocation, the available supply will be equitably allocated to all treated water service connections at the end of the applicable operating year. Service connections utilizing supply exceeding the aforementioned allocation will be subject to Tier 2 charges or penalty charges associated with the Water Shortage Allocation Plan.

Full Service Treated (Tier 2)

For Calendar Years 2009 and 2010, the Upper District will have an unlimited allocation (subject to drought restrictions) of Full Service Tier 2 supply. Once the total allocation of Tier 1 supply is utilized, all treated water sold will be subject to the Tier 2 rate of \$926.00 per acre foot or penalty charges associated with the Water Shortage Allocation Plan for the remainder of the applicable operating years.

Excess Annual Capacity Charges

The Full Service Tier 1 rate per acre foot as well as the Full Service Tier 2 rate per acre foot assumes a reasonable and normal annual maximum daily average capacity usage* per acre foot *May through September only.

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of water deliveries. Sub-agencies that exceed a reasonable and normal capacity usage during the May through September time period as determined by the District may be subject to annual excess capacity charges. Excess capacity charges will be calculated as \$7,200 for each CFS of excess capacity utilized during the period of May through September 2009 and May through September 2010 and will apply for three years.

Groundwater Replenishment Service (Untreated)

The rate for untreated groundwater replenishment service will be \$386.00 per acre foot. This service will be provided at service connection USG-3 and be subject to supply availability as determined by the Metropolitan Water District. The timing and rate of delivery (CFS) for this service shall also be subject to operating restrictions imposed by the Los Angeles County Department of Public Works.

Full Service Untreated (Tier 1)

The Upper District's Tier 1 allocation includes both treated and untreated Tier 1 deliveries. As a matter of policy, the Upper District will give preference to Tier 1 treated deliveries over untreated deliveries. Full service untreated deliveries will be billed at the Tier 1 rate of \$526.00 per acre foot only if there is sufficient allocation remaining after all full service treated deliveries have been accounted for. In the event that the Upper District base year allocation has been fully subscribed for the calendar year, all full service untreated deliveries will be subject to Tier 2 charges or penalty charges associated with the Water Shortage Allocation Plan.

Full Service Untreated (Tier 2)

For Calendar Years 2009 and 2010, the Upper District will have an unlimited allocation (subject to drought restrictions) of Full Service Tier 2 supply. Once the total allocation of Tier 1 supply is utilized, all untreated water sold will be subject to the Tier 2 rate of \$655.00 per acre foot or penalty charges associated with the Water Shortage Allocation Plan for the remainder of the applicable operating years.

Section 4. Cost of Service Model:

The District has prepared a cost of service model for the period 2008 through 2014. The model includes forecasted treated and untreated water demands, anticipated costs, probable water rates,

expected cost recovery and a reasonable application of rate stabilization funds. The model does not include the potential penalty charges that may accrue to Upper District as a result of the Water Shortage Allocation Plan. In addition, future actual costs and rates may vary from those presented in the model. However, the model offers a reasonable budgeting and planning tool for the District and its sub-agencies. The Board will periodically review the model to validate or modify assumptions to provide for the most rational projection of future costs and rates possible. The model presented in Exhibit A is incorporated herein by reference.

Section 5. Each groundwater replenishment customer shall pay a monthly ready-to-serve charge in addition to the water rate for groundwater replenishment service. This monthly ready-to-serve charge will be \$42.00 for each cubic foot per second of groundwater replenishment service connection capacity, at an amount not-to-exceed \$6,300.00 per month, payable in advance.

Section 6. A minimum charge equivalent to ten percent (10%) or one-tenth (1/10) of the value of one CFS of capacity (\$7,200), which equals \$720 per year effective October 1, 2009 through calendar year 2010, will be billed to the sub-agencies prorated on a monthly basis irrespective of the amount of water used.

Section 7. All sales, deliveries and availability of water at the rates established herein shall be subject to the ability of the Upper District to sell, deliver and make available such water under operating conditions determined by the General Manager of Upper District and of MWD, and subject to the water service regulations of Upper District and of MWD. All agencies that purchase treated or untreated water must comply with all rules, requirements, and regulations of Upper District Urban Water Management Plan adopted on or about December 2005 and any amendments or supplements thereto.

Section 8. The Board of Directors finds that the water rates and charges established herein will result in a fair and equitable revenue source to partially fund budgeted expenditures, thereby reasonably allocating costs of service to those who benefit therefrom.

Section 9. The Board of Directors recognizes that Southern California is facing water supply challenges arising from both ongoing drought and environmental factors. These factors

have created uncertainty regarding the reliability of all sources of water for the foreseeable future. As such, the Board reserves the authority to modify, alter, or suspend any or all sections of this resolution as determined prudent to properly respond to new developments in water supply circumstances. Section 10. The Secretary of Upper District shall cause a copy of this Resolution to be mailed to all current purchasers of water from Upper District including the users of water replenishment service connections. PASSED, APPROVED AND ADOPTED this 20th day of October, 2009. PRESIDENT Contras ATTEST SECRETARY SEAL

Upper San Gabriel Valley Municipal Water District
Treated/Untreated/Replenishment Water Cost of Service Model - All Service Connections
Calendar Years 2008 Through 2014

Description	2008	1/1/09-8/30/09	9/1/09-9/30/09	9/1/09-9/30/09 10/1/09-12/31/09	2010	2011	2012	2013	2014	Total
Water Deliveries (acre feet)										
Tier 1 Treated	14,500	3,267	1,000	3,500	13,658	896,8	9,218	9,318	9,318 0	72,747
Tier 2 Treated Tier 1 Untreated	1.746	0	00	0	0	• •	. 0	0	0	1,746
Tier 2 Untreated	0	0	0	0	0	Ø	0	0	a	0
Replanishment	40,826	8,126	0	0	36,000	53,000	53,000	56,000	26,000	302,954
Variable Cost										
MWD Cost Per AF-Tier 1 Treated Tier 1 Treated	508.00	579.00 1,891,593	701.00 701,000	701.00	701.00 9,574,258	853.00 7,649,704	870.00 8,019,660	885.00 6,246,430	903.00	54,316,299
MWD Cost Per AF-Tier 2 Treated Tier 2 Treated	606.00 0	695.00	781.00	781.00	811.00	987.00 0	1,007.00	1,025.00	1,046.00	0
MWD Cost Per AF-Fier 1 Untreated Tier 1 Intreated	351.00 612.846	412.00	464.00	484.00	484.00	589.00	601.00	614.00	627.00	612,846
MWD Cost Per AE-Tier 2 Untrested	449.00	528.00	564.00	564.00	594.00	723.00	738.00	754,00	770.00	
Tier 2 Untreated	0	0	0	0	0	0	0	o	0	0
MWD Cost Per AF-Pre-deliveries	238.00 2		•	¥	×	x	*	Ñ	•	
MWD Cost Per AF-Reptenishment Replenishment	258.00 9,716,588	319.00	366.00	366.00	366.00 13,176,000	445.00 23,585,000	454.00 24,062,000	463.00 25,928,000	472.00 26,432,000	124,833,576
Total Variable Cost	17,695,434	3,825,581	701,000	2,453,500	22,750,258	31,234,704	32,081,660	34,174,430	34,846,154	179,762,721
Fixed Cost										
Capacity Charges: Capacity Amount (CFS)	47.5	42.4	10.7		63.8	63.8	42.0	42.0	42.0	
Capacity Cost Per CFS Total Capacity Charge	6,800	6,600 288,320	6,800 72,760	6,800 72,760	7,200 459,360	472,120	348,600	357,000	385,400	2,759,320
Administrative Cost	910,922	569'669	138,688	226,313	1,310,481	1,735,341	1,771,513	1,876,572	1,910,578	10,580,102
MWD Charge for Replenishment Water USG-3 Deliveries @ \$2.00 per AF	81,652	16,252	٥	0	72,000	106,000	106,000	112,000	112,000	605,904
Total Fixed Cost	1,315,574	1,004,267	211,448	299,073	1,841,841	2,313,461	2,226,113	2,345,572	2,387,978	13,945,326
Total Water Costs	19,011,008	4,829,848	912,448	2,752,573	24,592,099	33,548,165	34,307,773	36,520,002	37,234,132	193,708,047
Cost Per Acre Foot (Blended Rate)	\$333.11	\$423.93	\$912.45	\$786.45	\$495.23	\$541.38	\$551.41	\$559.11	\$570.04	\$513.21
Total Water Costs (from previous page)	19,011,008	4,829,848	912,448	2,752,573	24,592,099	33,548,165	34,307,773	36,520,002	37,234,132	193,708,047

Upper San Gabriel Valley Municipal Water District
Treated/Untreated/Replenishment Water Cost of Service Model - All Service Connections
Calendar Years 2008 Through 2014

Description	2008	1/1/09-8/30/09	9/1/09-9/30/09	9/1/09-9/30/09 10/1/09-12/31/09	2010	2011	2012	2013	2014	Total
Water Deliveries (acre feet)										
Tier 1 Treated	14,500	3,267	1,000	3.500	13.658	840	0	4		
Her 2 Treated	0	0				000	2,410	9/5/8	9,318	72,747
Tier 1 Untreated	1,746	0		•	> c	> •	o (0	0	0
Tler 2 Untreated	0	0				9 6	o (0	0	1,746
Replenishment	40 R2E	ď		, ,	0	2	0	٥	0	0
			•	-	36,000	23,000	53,000	56,000	26,000	302,954
Water Sales Revenue										
Water Sales Revenue-Tier 1 Treated	549.00 7,960,500	681.00 2,224,827	681.00	797.00 2,789,500	797.00	968.00	968.00	9.196,866	987.00	60.539.033
Upper District Price Per AF-Tier 2 Treated	649.80	808.00	808.00	926.00	928.00	111000	1 110 00	000		200
water Sales Revenue-Tier 2 Treated	0	O	0	0	0	90	0	0 0	1,136.00	o
Upper District Price Per AF-Tier 1 Untreated	349.55	450.00	450.00	526 04	526.50	00 00.0	0000	4		
Water Sales Revenue-Tier 1 Untreated	610,314	O	0	0	0	0	00.850	00,260	652.00	610 314
Upper District Price Per AF-Tier 2 Untreated	450.35	577.00	577.00	655 00	855.00	784.00	60 191	4		
Water Sales Revenue-Tier 2 Untreated	0	0	0	0	0	0	0	0	00.108	0
Upper District Price Per AF-Pre-deliveries	251,90 2		0	٥	0	,		,		
Upper District Price Per AF-Replenishment	251.90	337.00	337.00	386.00	386.00	474 00	474 00	403 00	402.00	
Water Sates Revenue-Replenishment	10,284,069	2,046,939	0	٥	13,896,000	25, 122,000	25,122,000	27,608,000	27,608,000	131,687,009
Total Water Sales Revenue	18,854,884	4,271,766	681,000	2,789,500	24,781,426	33,803,024	34,045,024	36,804,865	36,804,866	192 836 358
Net Water Sales Revenue	(158,124)	(558,082)	(231,448)	36,927	189,327	254,859	(262,749)	284,865	(429.266)	(871 691)
Transfer from Rate Stabilization Fund	239,700	243,200	0	0	240,000	46,707	43,854	43,854	43.854	901 169
Carryover from Prior Year	0	83,576	(231,306)	(462,754)	(425,827)	3,500	305 066	9R 171	414 BOO	
Over (Under) Amount	963 696	1000							r r	•
	363,576	(\$231,306)	(\$462,754)	(\$425,827)	\$3,500	\$305,066	\$86,171	\$414,890	\$29,478	\$29,478
Percent of Costs Covered (% of Sales/Cost)	%66	88%	75%	101%	101%	101%	%86	101%	%68	100%

¹ Assumes no replenishment water available from MWD. Replenishment water deliveries for Calendar Years 2008 and 2009 will be made from Upper District's cyclic storage account.

² Based on rate existing through June 30, 2008 for MWD cyclic storage deliveries.

APPENDIX L Upper San Gabriel Valley Municipal Water District's BMP/DMM Information from Website





FEEDBACK

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UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT

11310 Valley Bivd. El Monte, CA 91731 t 626.443.2297 f 626.443.0617 info@usgvmwd.org

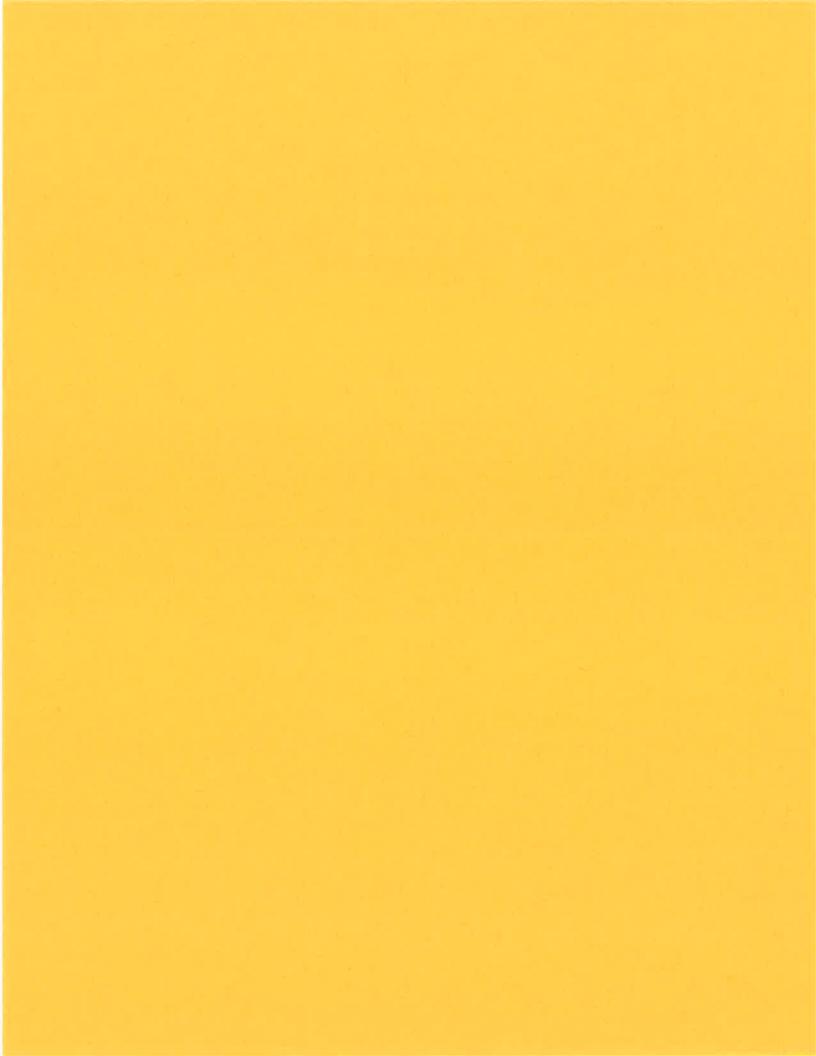
CONSERVATION & EDUCATION PROGRAMS

Conservation programs are a key part of the Upper District's efforts to ensure effective <u>water</u> management in the San Gabriel Valley. Water efficient measures and comprehensive conservation programs are developed and implemented based on sound economic and environmental criteria.

The District's commitment to water conservation is upheld through the continuation of projects that save water and increase the public's awareness of conservation and other water-related issues. Conservation projects also help the District meet the goals of the Best Management Practices (BMPs) set forth in the Memorandum of Understanding (MOU) developed by the California Urban Water Conservation Council (CUWCC), of which the District has been a signatory member since February 19, 1992.

- Up-A-Tree Program
- Water Education Grant Application
- Watershed Restoration Program
- Suburban Watershed
- Prop 13 NPS Pollution Reduction
- Water Efficient Landscape Project
- High Efficiency Clothes Washer Rebate Program
- Commercial, Industrial or Institutional Sites Click here for rebates on items for Commercial, Industrial or Institutional Sites
- Residential Rebate Program Click here for rebates on items for Residential sites.
- The Watering Calculator Click here to estimate the right amount of water to use for your landscape or garden every week.
- Southern California Friendly Gardening Click here for tips about California Friendly plants and water efficient gardening.







WATER EDUCATION GRANT PROGRAM

2009-2010 PROGRAM GUIDELINES

The Water Education Grant Program awards grants of up to \$1,000 for the purpose of bringing water-related projects and programs into the classroom.

Purpose

The purpose of the grant program is to fund classroom or school projects that further a better understanding of water and the important role it plays in Southern California. Through this program, water-related environmental issues, including the integral role water plays in the global community, can be examined. It supplements classroom efforts by providing additional funding for creative classroom projects.

Who Can Apply?

Any K-12 grade educator that teaches at a licensed school within the boundaries of the Upper San Gabriel Valley Municipal Water District is eligible to apply for a grant.

The Upper District area includes all or portions of the following cities: Arcadia, Azusa (portions), Baldwin Park, Bassett, Bradbury, Covina (large portions), Duarte, El Monte, Glendora (portions), Hacienda Heights (large portions), Industry (portions), Irwindale, La Puente (portions), Montebello (small portions), Monrovia, Monterey Park (small portions), Rosemead, San Gabriel, South El Monte, South San Gabriel, South Pasadena, Temple City, Valinda, West Covina (large portions), Whittier (small portions).

Project Focus

Projects must focus on water or water-related projects which may include:

- Examining the various properties of water, studying water quality or charting the effect of a drought on the economy.
- Integrating the project into as many disciplines as you wish: politics, social science, the arts.
- Creating a video, play or other performance medium that focuses on the subject of water and is used to educate students as well as other audiences such as school assemblies or community groups.

Grant Award Amounts

Grants of up to \$1,000 will be awarded. The number of grants annually awarded will vary based on the number of applications submitted, amounts requested and the quality/feasibility of the proposed projects/lessons.

Conditions

- ✓ Teachers may apply individually or as a group or team.
- ✓ Teachers are limited to one grant award per class, per year.
- ✓ Schools can apply on behalf of their teachers.
- ✓ Schools can apply for up to a maximum of 5 grants (\$1,000 maximum per grant).
- ✓ Grant funds must be used for materials or other direct project costs.
- ✓ Grant funds cannot be used for payment of salaries or teaching stipends.
- ✓ Grant recipients cannot reapply for funding in subsequent years for the same project.
- ✓ Grant recipients are required to submit both a hard copy <u>and</u> electronic copy (diskette or CD-Rom) of a written project summary and photos highlighting project results.

Program Steps

- 1. Complete a Water Education Grant Program application. Please limit application to the space provided.
- 2. Please state clearly on the application how receiving a grant will help make the water project a reality.
- 3. Describe the project in detail, listing the instructional objectives and support activities. Include the benefits students or others will receive from undertaking this project.
- 4. Submit an itemized budget for project needs and anticipated expenses. Award amounts may be granted for any amount requested, up to a maximum of \$1,000. Funds must be spent for the specific items and for the specific project listed in the grant application. No changes to grant applications will be accepted after the application deadline.
- 5. Completed applications must be reviewed and signed by the principal/head of school.

Application Review

District staff will review submitted applications. Applications will be reviewed and grants awarded using the following criteria:

- ✓ Does the project offer a better understanding of water and the important role it plays?
- ✓ Does the project actively engage students in the learning process and enhance the classroom experience?
- ✓ Are components of the project inter-disciplinary?
- Does the budget cover the activities proposed?
- ✓ Are the student activities, goals and objectives clearly defined?

Send Application To:

Completed applications may be mailed or delivered to:

Upper San Gabriel Valley Municipal Water District

11310 Valley Blvd. El Monte, CA 91731

Attention: Elena Layugan - WEGP

Completed applications may also be faxed to (626) 443-0617 or e-mailed to Elena@usgvmwd.org. Write or type WEGP in the subject line. The Upper District is not responsible for any delays in the delivery of applications. Applications received after the submittal deadline will be disqualified.

Timeline

January 7, 2010
 Mid-February, 2010
 June 24, 2010
 June 24, 2010
 Grant recipients are notified and grant funds are released to recipients.
 Project/lesson must be completed.
 Written summary and photos (both a hardcopy and electronic copy) of project/lesson must be received at the District office by 4:00 pm.
 June 24, 2010
 All unused grant funding must be returned to the Upper District.

For Questions

Please contact Elena Layugan at (626) 443-2298 or visit www.usgvmwd.org and click on "Water Education Grant Program."



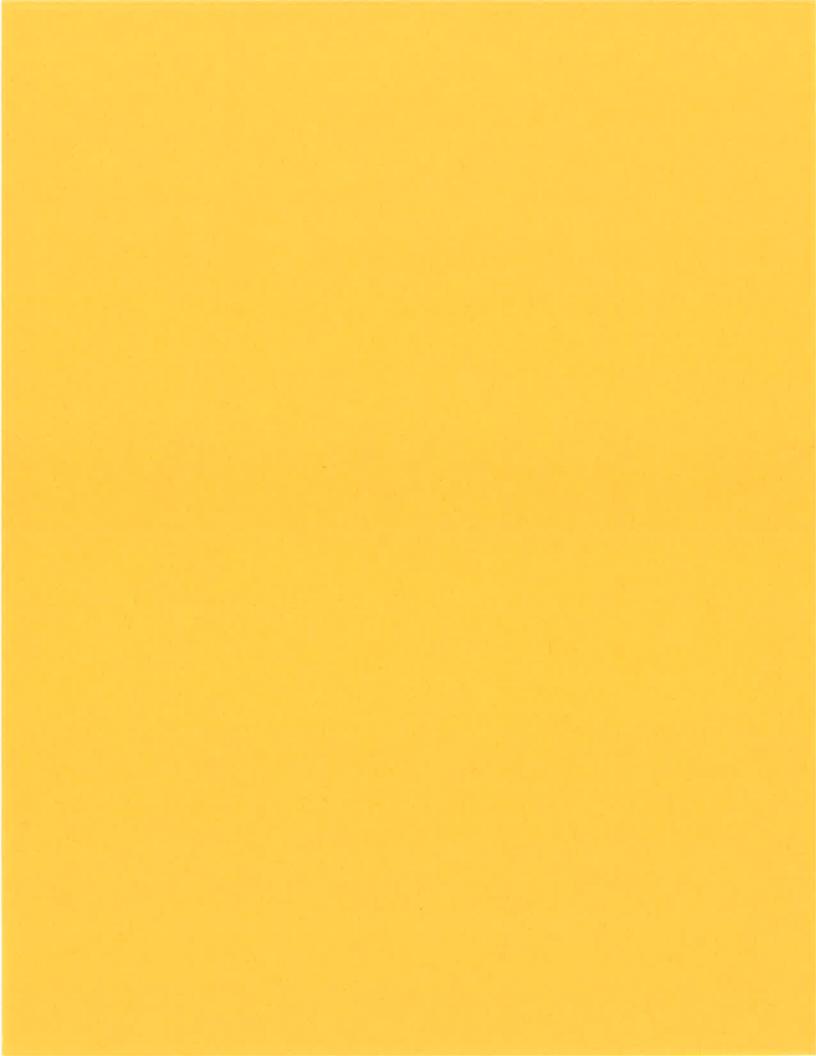
WATER EDUCATION GRANT PROGRAM

2009-2010 APPLICATION

Please complete both pages of the application. Incomplete applications will not be considered. Completed applications may be mailed or delivered to: Upper San Gabriel Valley Municipal Water District, 11310 Valley Blvd., El Monte, CA 91731 Attn.: Elena Layugan - WEGP. Completed applications may also be faxed to (626) 443-0617 or e-mailed to Elena@usgvmwd.org. Write or type WEGP in the subject line. The Upper District is not responsible for any delays in the delivery of applications received after the submittal deadline will be disqualified. Completed applications must be received at the District office by 4:00 pm on January 7, 2010.

Contact Person's Name	Date
School Name	School District
School Address	
School Phone No.	School Fax No.
Contact Person's E-mail	Contact Person's Phone No.
Project Title	
	Grade Level(s) Involved w/ Project
Description of Project	

Project Objectives	
Benefit to Students and Others	
	titems listed in this application.
Item	Projected Cost
Budget Please list projected expenses in detail. Awarded funds are to be spent only on the specific items listed in this application. Item Projected Cost Item Projected Cost Item Projected Cost Item Projected Cost Item Item Projected Cost Item No Item Projected Cost Item Projected Cost Item No Item Projected Cost Item Projected Cost Item No Item No Item Projected Cost Item No Item No Item Projected Cost Item No Item Item No Item Item No Item Item Projected Cost Item No Item Item	
	Item Projected Cost Total Amount Requested (Max. \$1,000) availability of these items? Yes No
Total Project Cost Total Amount Reque	ested (Max. \$1,000)
Have you researched availability of these items? Yes	No
Can elements of this project be used again? Yes No_	
Can this project be repeated with subsequent groups without further outs	side funding? Yes No
I understand and accept that I will be held accountable for expendi project, submittal of final report described above, and the return of a	itures of any/all grant monies for the above-described any unused funds to the Upper District.
Contact Person's Signature	Dat <u>e</u>
I have reviewed and support the submittal of this application.	
Principal's Signature	Date









Upper San Gabriel Valley Municipal Water District Watershed Restoration Program

The Watershed Restoration Program initially began in 1991 and is a cooperative partnership between the Upper San Gabriel Valley Municipal Water District and the U.S. Forest Service to protect and maintain the local watershed.



Why is this Program Important?

Fires, mudslides and the encroachment of non-native vegetation have caused accelerated erosion, which in turn, causes siltation of the canyon reservoirs and streambeds. Siltation reduces the water conservation and storage capacity of the reservoirs as well as the percolation capacity of streambeds and spreading grounds. Heavy recreational use has also had a negative impact on the local habitat by causing a reduction in the riparian vegetation which in turn has caused the destabilization of the river bank resulting in increased soil runoff directly into the river with subsequent siltation problems down-stream.

By replanting local areas with native vegetation, soils will not erode so quickly which will allow rain and other precipitation to percolate into the ground and make its way into our local aquifer. The vegetation will also help alleviate siltation that causes increased blockage of waterways and filtration systems.





Native Vegetation Project

Several times a year, volunteers of all ages are invited to take part in collecting seeds and/or re-planting germinated seeds in local watershed areas. The collection, germination and planting of such native vegetation helps to stabilize slopes and overlying soil for erosion control and mitigation of siltation. Such planting also allows a larger amount of precipitation to percolate into the ground and aids in the restoration of the natural habitat. Since its inception, over 65,000 trees have been planted through this program.

Interpretive Signage Project

Interpretive signs have been developed that discuss the function and importance of our local watershed as well as the historical background of the local dams and the San Gabriel River. Two signs can be found at rest stops along Highway 39 and a third sign is located at a rest stop along the East Fork Road, just a short distance off of Highway 39.

The Watershed Restoration Nursery

The watershed restoration nursery includes a green house and potting shed that have been established at the Mt. Baldy Visitors Center. This nursery enables seeds to be stored and native vegetation to be germinated in an environment protected from the elements of weather, plant diseases and local animals that forage on such vegetation. Such protection means a greater amount of plants and seeds readily available for re-planting areas devastated by fires and other disasters.







San Gabriel Valley Suburban Watershed Protection Program

The San Gabriel Valley Suburban Watershed Protection is a coordinated effort that combines community volunteer participation and educational outreach with local municipal efforts to plant and maintain trees within the cities of Monrovia and Arcadia.

Arcadia and Monrovia are situated at the base of the San Gabriel Mountains, that comprise much of the local watershed, and are susceptible to severe damage from runoff, siltation and erosion problems after rain falls or snow begins to melt in the local mountain and canyon areas. The planting and maintenance of approximately 615 trees through this project will help to raise public awareness about urban runoff and erosion issues, while providing a source of shading.

The program is funded through a grant obtained by the Upper District under the Watershed, Wildlife and Parks Improvement Bond Act of 2000 (Proposition 12). Additional funding is provided directly by the Upper District and through in-kind services provided by the cities of Arcadia and Monrovia.







File Name: Prp13NPSPReduction.doc

Upper San Gabriel Valley Municipal Water District SAN GABRIEL WATERSHED NPS POLLUTION REDUCTION PROGRAM

Background

The San Gabriel Watershed faces a number of environmental challenges that include excessive loadings of trash, nutrient and coliform. There is also an ongoing risk of sewage runoff from antiquated septic systems and portable lavatories.

The Upper District has been awarded grant funding by the State Water Resources Control Board, Division of Water Quality, to implement a NPS Pollution Reduction Program for the San Gabriel Watershed. This program will build and expand upon the restoration efforts of the Upper District's long-standing partnership with the US Forest Service.

Project measures will primarily be implemented within two key locations of the Angeles National Forest: San Gabriel Canyon and Chantry Flats.

Project Measures

- Trash reduction efforts, which will include the provision of trash collection bags/tools, increased volunteer cleanup events and collection removal.

 Reduction of trash through these efforts will reduce debris runoff and pollutant loadings in the groundwater and surface water.
- Retrofit several lavatories with self-composting toilets.

 Self-composting toilets will improve sewer collection and decrease septic system leakage, which contributes to groundwater contamination. Installation of these permanent lavatories reduces use of portable units, which are prone to being tipped over resulting in raw sewage spillage contaminating the groundwater and surface water.
- Stream clearance efforts to remove blockage caused by sedimentation and debris build-up.

 Reduction of debris and turbidity would increase oxygen levels in the water and reduce the number of fish dying from oxygen deficiency. This would reduce further damage to spawning grounds and decrease risks to the Santa Ana Sucker, which is already designated as a threatened species of fish.
- Clearance and rehabilitation of designated trails/footpaths that have deteriorated.

 Promotion of easily accessible designated pathways and deterrence from creation of informal pathways, will minimize the destruction of vegetation and soil breakdown caused by human foot and bicycle traffic.

 Diminished erosion would reduce stream bank deterioration and further siltation build-up in the local reservoirs, thereby increasing water storage capacity.
- Installation of natural rock and plant barriers to block off, or re-route, foot traffic from informal pathways.

 Informal pathways increase damage to the vegetation and cause further erosion. Natural barricades are intended to dissuade forest visitors from continued use of such paths.
- Stabilization of stream banks and slopes identified as highly erosive areas, through revegetation efforts.

 Minimize erosion that damages the riverbanks and causes further siltation and debris to build-up in the local reservoirs, reducing water storage capacity. Replanting vegetation can also trap and remove phosphorus, nitrogen, and other nutrients that can cause eutrophication of the river. The nutrients are removed through uptake by vegetation, biochemical processes by plants and bacteria, and the geophysical trapping of the soil in the vegetation.
- Proactive public outreach, which will include the development of an informational kiosk, interpretive signage and provision of educational literature.

 Volunteer events will provide opportunities for substantial community involvement and will encourage environmental stewardship. Provision of the educational kiosk and materials will deter littering and dumping and educate visitors about the watershed.







Olive Middle School Sports Park Model Water Efficient Landscape Project

The Upper San Gabriel Valley Municipal Water District (Upper District) plans to embark on Phase II of retrofitting the irrigation system of the Olive Middle School Sports Park, located just north of Olive Middle School in Baldwin Park. The Sports Park consists of three baseball diamonds and one softball diamond and is currently administered and maintained by the Baldwin Park Little League.

Volunteers installed the current irrigation system, which is manually operated, over fifteen years ago. On occasion fields have been flooded or left very dry and leakage has remained a constant problem throughout the years. A new automated irrigation system would greatly increase the efficiency of the system and maintain a viable water efficient landscape.

Phase I included installation of all new irrigation piping, a booster pump, controls, ground leveling and seeding for the two largest fields (Fields 1 and 2). Construction for Phase I is near completion and the fields will be ready by the end of March 2003 in time for use during the Little League's upcoming 2003 season.



Design and construction of the project is underway in order to meet the proposed goal of completing all fields for use in the Little League's 2004 season. The design includes new irrigation piping, a water meter to measure irrigation consumption, a booster pump to increase water pressures, automated controller clocks, an evapotranspiration tracking (Et0) system, moisture sensing, rain shut-off, addition of soil amendments, leveling out irregularities in fields, and placement of new turf. One of the BATs for irrigation installations includes Et0 tracking which consists of daily communication with local weather stations that reports daily evapotranspiration rates. This information is then input into the irrigation system's controllers, which automatically adjusts the amount of water to be applied to the fields. These daily automatic adjustments based on current weather conditions will allow the system to conserve water in the most efficient manner.



In Phase II, the Upper District proposes retrofitting the irrigation system of Fields 3 and 4 using new "Best Available Technology" (BAT) in order to increase water efficiency for this community Sports Park. This model project Incorporates state-of-the-art irrigation technology that provides a showcase for the demonstration of improvements in water efficiency that can be achieved with new technologies. Upper District has asked Stetson Engineers to head up the design of the project. Stetson Engineers will be working with the Water Management Group (irrigation specialists) and RHA Landscape Architects Planners to design the new system and overlying turf.

Work during Phase II includes installation of all new irrigation piping, controllers, ground leveling and seeding for the remaining two fields (Fields 3 and 4). Construction for Phase II is proposed to begin in July 2003 and the fields would be ready for use by the end of November 2003. When completed, the project is expected to yield a long-term water conservation benefit of 30% to 40%.





HIGH EFFICIENCY CLOTHES WASHER REBATE PROGRAM Starts July 1, 2009 \$200 Rebate

FOR PURCHASING A QUALIFYING HIGH EFFICIENCY CLOTHES WASHER

ACT NOW!

Rebates are available on a first-come, first-served basis and are available until all designated HECW rebate program funding is expended or the Upper District discontinues the program.

Qualifying High Efficiency Clothes Washers (HECW) typically use up to 50% less water and 50% less energy compared to standard-efficiency washers.

Application Instructions

- Step 1. BEFORE PURCHASING A WASHER, call the Upper District at (626) 443-2297 anytime between 9:00 am to 4:00 pm, Monday through Friday to confirm residency within the Upper District boundaries and reserve your rebate.
 - Remember: Rebate program starts July 1, 2009. To be eligible for this rebate, you must call on or after July 1, 2009 and request a rebate application form <u>BEFORE</u> purchasing a washer!
- Step 2. An application and list of Qualified High Efficiency Clothes Washers (HECW) will be mailed to you.
- Step 3. Purchase one of the washers listed on the Qualified High Efficiency Clothes Washers (HECW) list.
- **Step 4.** Complete the application and attach the following documents:
 - A copy of the washer sales receipt; and
 - A copy of a recent water bill for the residential address where the washer will be installed. If you are a renter or your water is paid by an HOA, we still require a water bill. If the water bill is under someone else's name such as a landlord's or an HOA, please send a copy of another utility bill (such as a gas or electricity bill) along with your water bill that includes your name and address on the bill.
- Step 5. Mail or submit application and required documents by the due date printed in the upper right corner of your application sheet. Mail or submit completed application and required documents to:

HECW Program
Upper San Gabriel Valley Municipal Water District
11310 Valley Blvd., El Monte, CA 91731

- Step 6. Upper District conducts phone and/or site verification of washer purchase and installation.
- Step 7. Receive your \$200 rebate check in the mail!

The Residential High Efficiency Clothes Washer (HECW) Rebate Program is sponsored by:











High Efficiency Clothes Washer Rebate Program 2009-10 Guidelines

BEFORE purchasing a washer, call (626) 443-2297

between 9:00 am and 4:00 pm, Monday through Friday to ensure eligibility and to obtain a rebate application!

- The 2009-10 HECW Rebate Program starts July 1, 2009. To be eligible for this rebate, you must call on or after July 1, 2009 and request a rebate application form **BEFORE purchasing a washer!** Rebates can not be issued for HECWs purchased before July 1, 2009.
- Rebates are offered on a first-come, first-served basis and are available until all designated HECW rebate program funding is expended or the Upper District discontinues the program. This program shall, at all times, be subject to change or termination without prior notice. Incomplete or incorrect applications cannot be processed.
- ♦ There is a **limit of one (1) HECW rebate per water bill account address** for a period of 20 years, unless there is a change of occupants residing at the installation address indicated on this application. If the washer is moved out of the installation address prior to receipt of the rebate check, the application for a rebate becomes void.
- To qualify for a rebate, the clothes washer must be installed at the installation address listed on the submitted application. The installation address must be a residential dwelling within the Upper San Gabriel Valley Municipal Water District (Upper District) boundaries. A residential dwelling is defined as a single-family home, condominium, townhouse, apartment, or mobile home. The residential dwelling must be fully constructed and occupied.
- If proof of delivery to the installation address listed on the application is not indicated on the receipt, the Upper District may choose to do a site visit to verify washer installation.
- Only washers listed on the Upper District's list of "Qualified High Efficiency Clothes Washers (HECW)" sent along with the application are eligible for this rebate.
- A completed application must be submitted along with a copy of the washer sales receipt and a copy of a recent water bill for the residential address where the washer will be installed. The application and accompanying documents must be received by the due date specified in the upper right corner of this application sheet or the application may be cancelled. Mail or submit application and required documentation to: HECW Program, Upper San Gabriel Valley Municipal Water District, 11310 Valley Blvd., El Monte, CA 91731.
- If the name of the applicant is different from the name listed on the water bill for the listed installation address, additional documentation showing the applicant's name and the installation address may be requested.
- The Applicant understands and agrees that the Upper District or its representative may call and/or visit the installation site in order to verify installation of the washer before a rebate is paid. A rebate will not be paid if the Upper District cannot verify installation of the washer at the installation address indicated on the application.
- The rebate check will be mailed within 90 days from the time the HECW installation is verified.
- The name on the rebate check must match the name of the purchaser listed on the HECW receipt.
- The Applicant understands that the Upper District may withhold payment of any rebate until all of the abovelisted conditions are met to the satisfaction of the Upper District.
- Selection, purchase, installation and ownership/maintenance of a washer or related components and/or services, are the sole responsibility of the Applicant.
- The Upper District does not warrant, endorse, or assume liability for the quality, performance, or safety of the contractor and/or retailer or wholesaler, or performance of any appliance.
- Applicant is responsible for meeting all program requirements and for checking with state/county/city governments and homeowner's association (if any) in the area regarding local conditions, restrictions, codes, ordinances, rules and regulations prior to installation.
- Upper District has no liability whatsoever concerning: (1) the quality, safety and/or installation of any products or measures, including their fitness for any purpose, (2) the estimated water or energy savings of any products or measures, (3) the workmanship of any third parties, (4) the installation or use of any products or measures including, but not limited to, effects on indoor pollutants, or (5) any other matter with respect to this rebate program.
- In the event Applicant breaches any of the conditions of the HECW Rebate Program, the Applicant will
 promptly return the entire rebate to the Upper District.
- The Upper District is not responsible for materials lost or destroyed in the mail or in transit.





REBAT WATER AGENCIES MULTI-FAMILY LANDSCAPE DEDICATION OMMERCIAL

Qualifying Products

Lists of Qualifying Models

Member Agency Access

Site Map

About Us



www.bewaterwise.com



SoCal Water\$mart
Rebates are for
Single-Family
Residential Customers
of MWD only

WATER SAVED BY OUR CUSTOMERS: 5,271,263,716 GALLONS

Rebate reservations now available region-wide

On June 1, 2010, the Save A Buck program re-launched for Southern <u>California</u> commercial, industrial, institutional, and multi-family water customers.

There have been important changes to program terms and conditions, so please review closely the qualifying products section as well as the list of qualifying devices and rebate amounts closely.

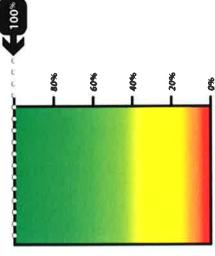
Key changes as of June 1, 2010, are:

- A minimum of 25 rotating nozzles must be purchased per <u>application</u> to be eligible for the rebate.
- Rotating nozzles are no longer required to be installed with matching pressure regulating devices.
- Waterbroom rebates are available only to commercial water customers that are required to wash down surfaces for health and safety reasons.
- Rebate amounts for some devices have changed.
 Please click on Products & Rebates for more information.



REBATES REMAINING INDEX

As of June 1, 2010



The Revates Remaining toder is an informational graphic and is not a guarantee that thinks are available. Funding is limited, and available in or offst-come, first-serold basis. The program period is lone 1, 2018 though May 31, 2017, or until hands ore depoteted in higherer comes first: Program status is determined through is projection of the estimated termaning number of stedotes based on the areas existing application received to date. This graphic is updated to refect available hundring number of stedotes based on updated to refect available hundring number of stedotes based on updated to refect available hundring and on aveilibility.

Save Water, Save A Buck Call Toll Free



Customer
Check List
Products &

Rebate Reservation FAQ

Terms & Conditions



Qualifying Devices





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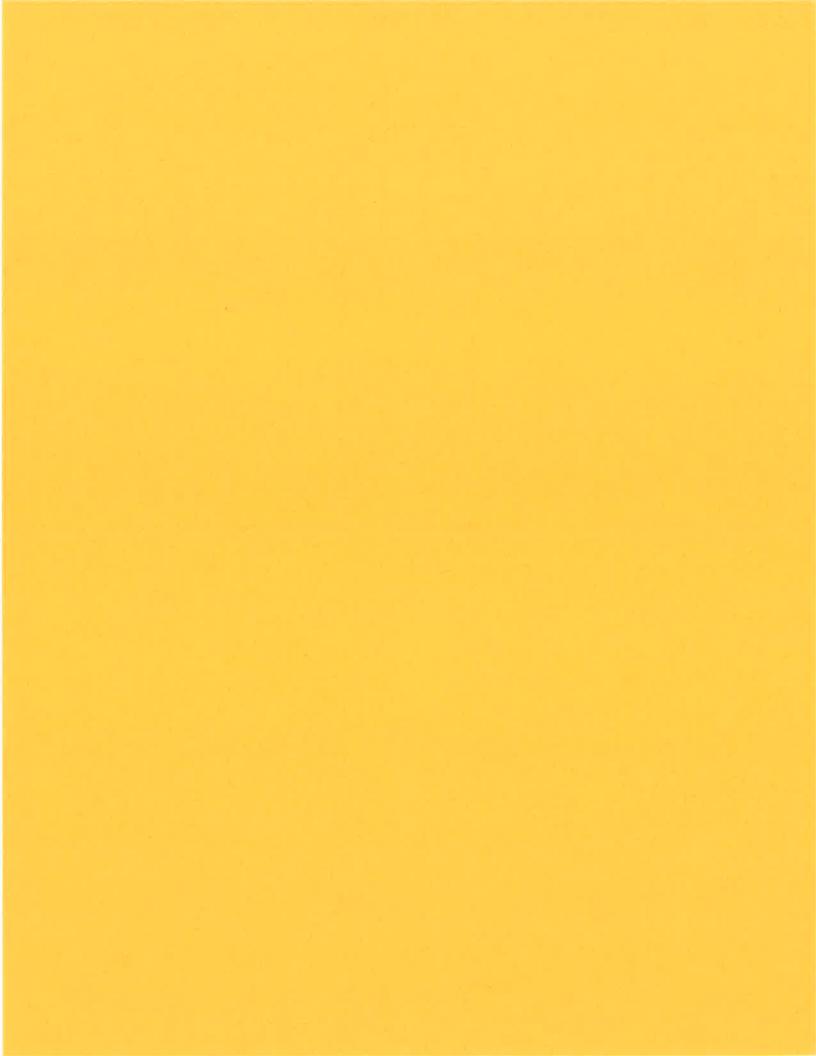
This web site is developed and maintained by Honeywell Utility Solutions



Save Water, Save A Buck Water Saving Technologies Effective June 1, 2010

Note: This rebate sheet is only applicable for Commercial, Industrial and Institutional customers of the Metropolitan Water District of Southern California (MWD). Base rebates are funded by MWD. Participating water agencies may offer all or some of the technologies listed. Rebates offered may vary by service area. Please check our website for complete listing by water agency.

Water-Efficient Devices	Description	Base Rebate	Unit Measure	Approved List
Commercial High Efficiency Toilet - [Flushometer, Tank, Dual Flush]	The effective flush volume shall not exceed 1.28 gallons (4.8 liters). For "Dual Flush" toilets, the effective flush volume is defined as the composite, average flush volume of two reduced flushes and one full flush. Rebates are for matching bowls and tanks and/or matching bowls and flushometer valves/valve kits. If retrofitting tank and dual flush units, refer to EPA WaterSense-approved list. No list for Flushometer toilets.	\$ 50	Each	YES – refer to WaterSense list for Tank and Dual Flush toilets. No list for Flushometer
Commercial High Efficiency Toilet (HET) - New Construction	Qualifying HETs (1.28 gpf) installed in newly constructed commercial buildings.	\$ 30	Each	YES
Ultra Low Water Urinal (ULWU) (<0.25 gpf) and Zero Water Urinals (ZWU)	ULWUs flushing at < 0.25 gpf that replace existing urinals flushing at 1.5 gpf or greater. ZWUs that replace existing urinals flushing at 1.5 gpf or greater.	\$ 200	Each	YES
ZWU/ULWU Upgrade or New Construction	ZWUs or ULFUs flushing < 0.25 gpf that are installed in new construction or upgrade from existing 1.0 gpf units.	\$ 60	Each	YES
Water Broom	Water brooms must be able to use high-pressure, low volume spray using only water with no cleaning agents at an average usage of 0.006 gallons/square feet. Rebates are limited to customers to wash down surfaces that comply with state or local health and safety codes (e.g. CA Health and Safety Code, Section 111985; or Los Angeles County Code, Chapter 11.38).	\$ 110	Each	YES
Connectionless Food Steamer	Qualifying Connectionless Food Steamers do not have a water line.	\$ 485	Per Compart ment	YES
Ice-Making Machine (Tier III)	Applies to installation of new air-cooled ice machines that meet the Consortium for Energy Efficiency (CEE) Tier III standard.	\$ 300	Each	YES
Dry Vacuum Pump	Dry Vacuum Pumps with a maximum 2 Horsepower (HP) motor.	\$ 125	Per 0.5 HP	NO
Cooling Tower Conductivity Controller (CTCC)	CTCC must automatically maintain conductivity or TDS level below a user-defined value by actuating the solenoid valve on the bleed line.	\$ 625	Each	NO
pH Cooling Tower Controller (pH-CTC)	pH-CTC must monitor and automatically maintain pH levels of recirculated water by activating either an acid or base chemical feed.	\$ 1,750	Each	NO
Weather-Based Irrigation Controller (WBIC) and Central Computer Irrigation Controller (CCIC)	Irrigation controllers using historic or real time data on environmental conditions for a specific location and landscape – such as soil moisture, rain, wind, plants' transpiration rates, and, in some cases, plant type and more – to adjusting irrigation schedules, providing more precise amounts of water to maintain healthy growing conditions. Weather Based Irrigation Controller Models must be International Irrigation Association / SWAT approved. Incentives are based on controller station capacity.	\$ 25	Station	YES - IA SWAT Approved
Rotating Nozzles for Pop-up Spray Head Retrofits	Multi-stream, multi-trajectory pop-up nozzles; Minimum 25 per application (reservation), No maximum. Pressure regulator not required.	\$ 3	Nozzle	YES
Large Rotary Nozzles	Nozzles made of wear-resistant materials (e.g. brass); minimum of 8 sets per site required, no maximum.	\$ 7	Set	YES



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Why Save Water?

Qualifying Products

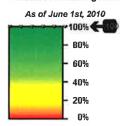
Rebate Information

Estimate Your Rebate

Program FAQs

Member Agencies

Rebates Remaining Index



News and Events

News Flash!

High-efficiency toilet rebates may be available to customers of some water agencies. Check back soon for more information.

Turf Removal

Select customers of participating water agencies are now eligible for turf replacement rebates. Visit the Turf Removal page to download your application.





Member Agency Access

MEMBER AGENCY LOGIN

If you need assistance, please contact us.

SAVE WATER SAVE MONEY

Starting June 1, 2010, a limited number of rebates are available through the SoCal Water\$mart program as it begins its third year serving Southern <u>California</u> residential water customers. To-date, over **95,000** households have participated in contributing to significant water savings for Southern California.

There have been important changes to program terms and conditions, so please read the updated Rebate Information section closely. Check this website regularly for program updates.

Key changes as of June 1, 2010, include:

- · Rebates for synthetic turf have been discontinued.
- High-efficiency toilet rebates are no longer part of the regional program. However, depending on where you live, rebates may be available locally.
- A minimum of 25 rotating nozzles must be purchased per application to be eligible for the rebate.
- Rotating nozzles are no longer required to be installed with matching pressure regulating devices.
- · Some rebate amounts have changed.

Important reminders:

 Funding is limited, and submitting a rebate application does not guarantee you will receive a rebate. Rebates will be issued on a first-come, first-served basis until funding is exhausted.

Get Your Rebate



Qualifying Products Lists

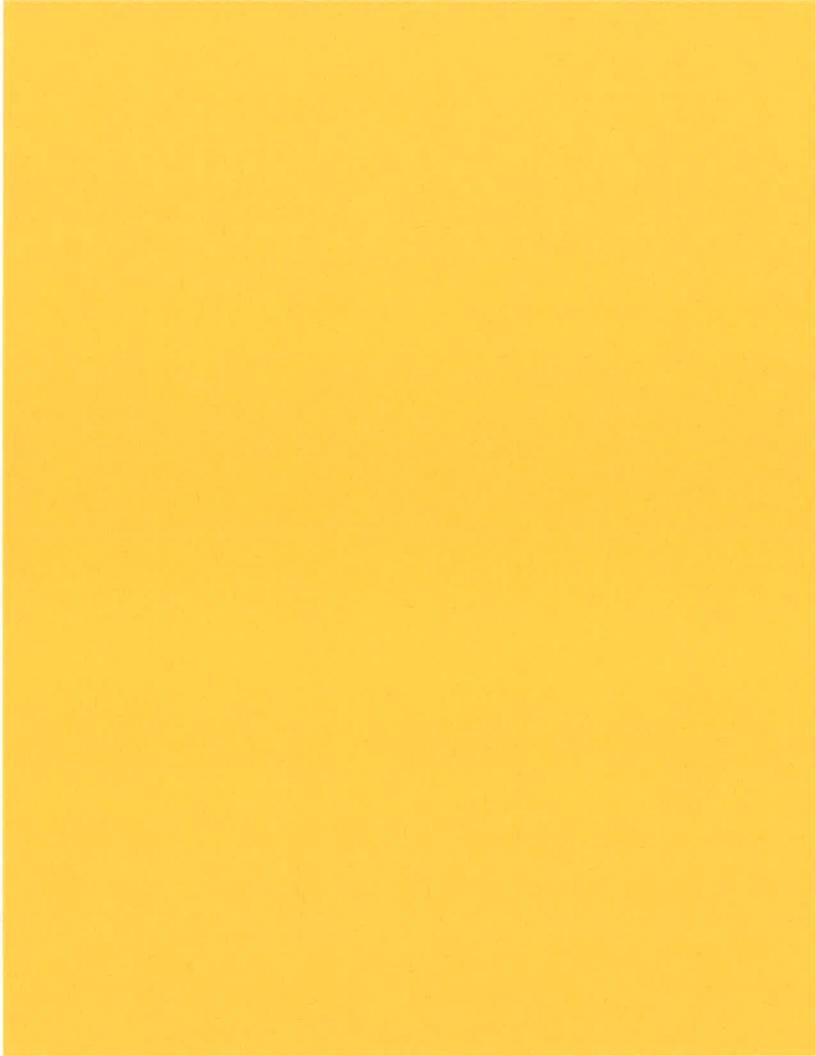
HIGH-EFFICIENCY CLOTHES WASHERS LIST -- Statewide rebates start April 22, 2010

ROTATING NOZZLES

WEATHER-BASED IRRIGATION CONTROLLERS LIST

Visit MWD Website





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The Watering Index and Watering Calculator

Many of us overwater our plants and lawns. But now, figuring out how much water your lawn and garden really need is easy with the Watering Index and Calculator. Get started by using the calculator below to create a customized watering schedule. Then use the Watering Index daily, weekly or monthly to adjust your schedule. The Watering Index is updated daily. You could save as much as 1,000 gallons a month by watering your plants only as much as they need.

IMPORTANT: The Watering Calculator does not reflect local mandatory <u>conservation</u> measures that may be in effect because of the current water <u>supply shortage</u>. Please check with your water provider to find out what watering days and times are allowed in your area.

The Watering Calculator is a tool that estimates the correct amount of water to give your landscape or garden every week. Developed by the city of San Diego, it provides customized watering schedules by zip code based on data from the <u>California</u> Irrigation Management Information System (CIMIS) weather station network.

It has been designed to give you a schedule for the maximum amount of water which your plants or lawn may need each week of the year. For example, in January, your plants may need to be watered for a total of six minutes per week. Come July, they may need 24 minutes per week.

The calculator has been simplified by using average numbers for weather, plants, and soils within zip codes of the urban Southern California area. These are only suggested run times, so you will need to observe plant health and/or soil moisture levels and make adjustments as necessary.

How to use the Watering Calculator:

- Answer the questions below for each area of your yard. You can create a
 watering schedule for up to 6 areas at one time.
- When complete, click on the button below to see your customized watering schedule.

Tips for watering during water restrictions:

Due to dry conditions and limited water supplies, some areas are restricting outdoor water use. These regulations vary across Southern California, and the watering calculator does not create a schedule based on local restrictions. The following tips will help you schedule landscape watering:

- Check with your water provider to find out the watering days and times allowed in your area.
- Enter your landscape information into the watering calculator and create a watering schedule.
- Divide the total minutes per week in your watering schedule by the number
 of days per week you may water. For example, if the calculator shows you
 should water one area a total of 20 minutes per week and local regulations
 limit watering to 2 days per week, you will want to water 10 minutes each
 day.
- Watch for <u>run-off</u>. If you water for longer periods, water may run off and be wasted. Many controllers have a feature that allows for multiple start times so you can "cycle and soak". Watering for shorter periods allows the water to soak in.
- To prevent run-off, multiple start times of shorter duration may be set before and/or after any time restrictions in your area.

THE WATERING INDEX

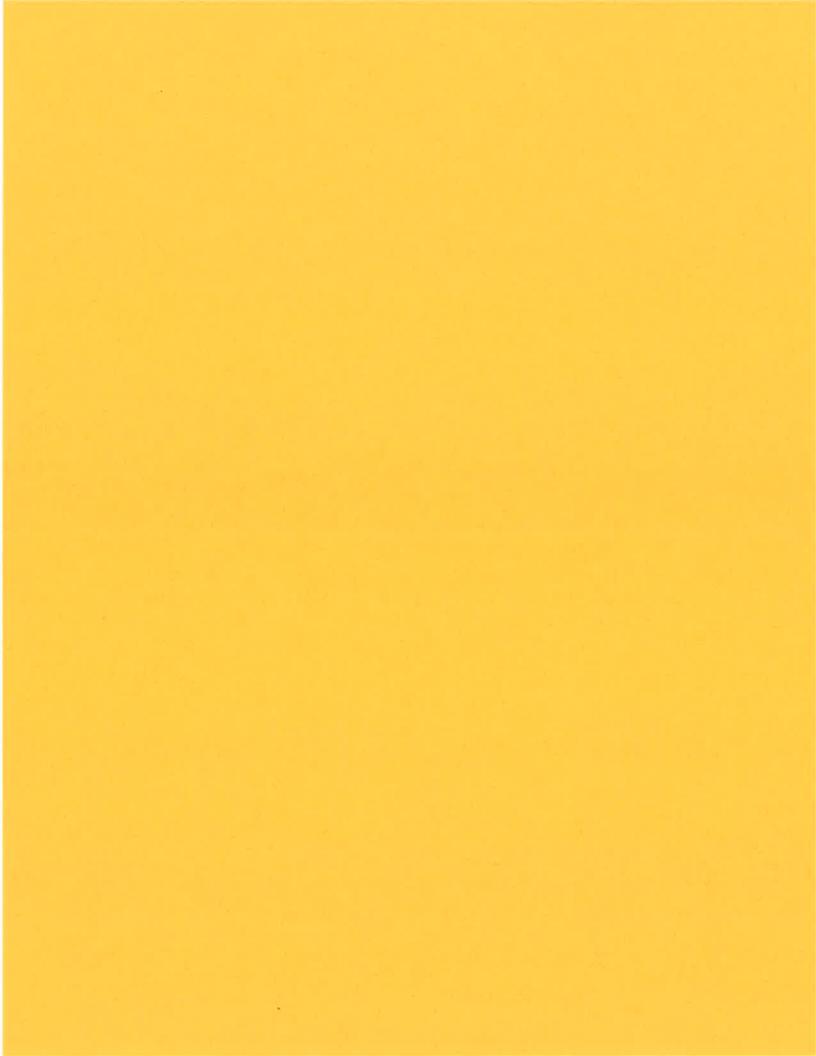
What is the Watering Inde how does it work with the Watering Calculator?



Click here to add the Wat-Index to your Web site.

THE WATERING CALCULATO

Create your own custom \
schedule >>





bewaterwise.com

THE METROPOLITAN WATER DISTRICT of SOUTHERN CALIFORNIA and THE FAMILY of SOUTHERN CALIFORNIA WATER AGENCIES

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THE WATERING INDEX

What is the Watering Index and how does it work with the Watering Calculator?



Click here to add the Watering Index to your Web site.

Getting Started



Local Retailers

List of local native and <u>California</u> Friendly retailers.



Beginning Tips

Begin your California Friendly® Garden makeover.



Design Templates

See designs used by others.



Most Popular

A short list of great native plants.



Hotline

Call the hotline or see what one homeowner has done.



Gardens to Visit

List of California Friendly gardens near you.

Helpful How To's



California Friendly Gardening Guide

Choose from 1500 plants in our plant selection database.



California Friendly Landscape and Gardening Classes

Take <u>classes online</u> or attend a class in your area.



Videos:

California Friendly Garden Makeover Video

Heritage Gardening For Today



Get the Book

Copies of the new "Care & Maintenance of Southern California Native Plant Gardens" book are available through the California Native Plant Society 916-447-2677, Rancho Santa Ana Botanic Garden 909-625-8767, Theodore Payne Foundation (818) 768-1802, or the Water Conservation Garden at (619) 660-0614

Reference Desk



Water wise Landscaping

Tips on how to convert your landscape.



Water Conservation and West Nile Virus



Fire Resistant California Friendly Plants

Save water and help protect against fires



Garden Resources

Buying, planning and caring tips for your California Friendly Garden.



Preventing Frozen Pipes & Protecting Plants

Some helpful tips on the prevention and thawing of frozen pipes as well as protecting your outdoor plants.

APPENDIX M Draft Urban Water Shortage Contingency Resolution

ORDINANCE

AN ORDINANCE OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT DISCOURAGING AND PROHIBITING THE WASTEFUL USE OF WATER IN THE DISTRICT DURING TIMES OF DECLARED WATER SHORTAGE EMERGENCIES

WHEREAS, the California Urban Water Management Planning Act ("Act") (Water Code Sections 10610 through 10656) requires the preparation and adoption of an Urban Water Management Plan by each "urban water supplier";

WHEREAS, the Upper San Gabriel Valley Municipal Water District ("Upper District") is an "urban water supplier" within the meaning of the Act;

WHEREAS, the Act further requires that the Upper District periodically review its Urban Water Management Plan at least once every five years and make any amendments or changes indicated by its review;

WHEREAS, the primary aim of the Act is to direct urban water suppliers to evaluate their existing water conservation efforts, and, to the extent practicable, to review and implement alternative and supplemental water conservation measures including such times when a declared water shortage emergency exists;

WHEREAS, Upper District staff has included as part of the preparation of its December 2005 Urban Water Management Plan a proposed Ordinance to be considered for adoption by the Board of Directors in the event of the necessity of declaring a water shortage emergency within the District boundaries;

NOW, THEREFORE, the Upper District hereby finds, resolves and ordains as follows: SECTION 1. The Upper San Gabriel Municipal Water District hereby states its intent to include in the adoption of the 2005 Urban Water Management Plan an Ordinance to address wasteful use of water during periods when a water shortage emergency has been declared. The Upper District Board of Directors further finds that preparation of this Ordinance serves the public health, safety and welfare in that it will promote water conservation within the Upper District's jurisdiction and promote the long term reliability of water.

SECTION 2. REGULATIONS AND RESTRICTIONS ON WATER USE

Upper District, in order to conserve water supply for the greatest public benefit and to reduce the quantity of water used within Upper District, wasteful use of water should be eliminated. To this end, Upper District encourages its member agencies to observe the following regulations and restrictions on water use:

- A. No retail customer shall waste water. As used herein, the term "waste" means:
 - 1. Use of potable water to irrigate turf, ground-cover, shrubbery, crops, vegetation, and trees (agricultural accounts are excluded from the time of irrigation restriction) between the hours of 10:00 o'clock A.M. and 6:00 o'clock P.M. or in such a manner as to result in runoff for more than five (5) minutes;
 - 2. Use of potable water to wash sidewalks, walkways, driveways, parking lots, openground or other hard surfaced areas except where necessary for public health or safety;
 - 3. Allowing potable water to escape from breaks within the customer's plumbing system for more than twenty-four (24) hours after the customer is notified or discovers the break;
 - 4. Washing cars, boats, trailers, aircraft, or other vehicles by hose without a shutoff nozzle and bucket except to wash such vehicles at commercial or fleet vehicle washing facilities using water recycling equipment;
 - 5. Use of potable water to clean, fill or maintain decorative fountains, lakes or ponds unless such water is recycled.
- B. The following restrictions are effective during a declared Water-Shortage Emergency.
 - 1. No restaurant, hotel, café, cafeteria or other public place where food is sold, served or offered for sale, shall serve drinking water to any customer unless expressly requested;
 - 2. Use of potable water for construction, compaction, dust control, street or parking lot sweeping, building washdown, or to irrigate turf, ground-cover, shrubbery, vegetation, and trees where non-potable or recycled water is sufficient and available;

1	3.	Use of potable water	for sewer system	maintenance	or fire protecti	on training
2		unless absolutely neces	sary for the immedi	ate protection	of public health	and safety
3		or the protection of pro	perty, or if recycled	or non-potabl	e water is availa	able;
4	4.	Use of potable water for	or any purpose in e	xcess of the a	mounts allocate	ed for each
5		class of service.				
6	C. Other restrictions may be adopted by Resolution of the Upper District Board of Directors					
7	as necessary during a declared Water Shortage Emergency, to safeguard the adequacy of the water					
8	supply for domestic, sanitation, fire protection, and environmental requirements.					
9	PASSED, APPROVED, ADOPTED AND ORDAINED this day of, 20					
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12				PRESIDENT		
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APPENDIX N Resolution No. 6-90-266

RESOLUTION NO. 6-90-266

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT URGING ITS SERVICE AREA TO REDUCE DEMANDS BY 10 PERCENT TO MITIGATE THE EFFECTS OF THE 1990 CALI-FORNIA DROUGHT

WHEREAS, California is in the fourth consecutive year of below-normal precipitation;

WHEREAS, precipitation for the current water year has 8||been substantially below normal in the watersheds of the imported 9||supplies serving Southern California;

WHEREAS, precipitation in Southern California has also 11 been below average and water levels in the Main San Gabriel 12 groundwater basin have declined more than 40 feet the last 13 few years;

WHEREAS, during the drought of 1988 Southern California 15 reduced demands an additional 8 percent from what they would 16 ordinarily have been;

WHEREAS, the drought of 1990 appears to be more severe 18 than the drought of 1988;

WHEREAS, The Upper San Gabriel Valley Municipal Water 20 District Board of Directors in 1988 urged all cities, water supply agencies and other public and private water users to 22 adopt conservation measures to mitigate the effects of the 23 continuing drought; and

WHEREAS, there is a need to reduce total demands on all 25 water supply entities within the Upper San Gabriel Valley Municipal Water District service area by 10 percent in 1990 as compared to 1989, to reduce the potential for shortages for this year and even more severe shortages next year;

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NOW, THEREFOR, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT as follows:

Section 1. That the Board of Directors urges all cities, 5 water supply entities, and other public and private water users 6 in its service area to reduce their own usage and to urge their 7 customers to reduce their usage by at least 10 percent, as 8 compared to 1989, to assist in the mitigation of the effects 9 of the drought during 1990, and to maintain the conserved water 10 in storage against the possibility of even more severe shortages 11||in 1991; and

Section 2. That a copy of this resolution be sent to 13 the governing body and chief executive officer of every city and water supply entity within the Upper San Gabriel Valley Municipal Water District's service area.

PASSED, APPROVED AND ADOPTED this 6th day of June, 1990.

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ATTEST:

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APPENDIX O Resolution No. 2-09-465 And No. 4-95-333

RESOLUTION NO. 2-09-465

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT REPEALING RESOLUTION NO. 1-08-453 AND ADOPTING WATER RATES AND CHARGES FOR CALENDAR YEAR 2009

WHEREAS, the Metropolitan Water District of Southern California ("MWD" herein) has adopted water rates and charges for its classes and conditions of service for the calendar year 2009 and this Upper San Gabriel Valley Municipal Water District ("Upper District" herein) wishes to reflect MWD's new rates and charges in the water rates and charges of the Upper District; and

WHEREAS, MWD has established charges in their rate structure including a Readinessto-Serve Charge, Capacity Charge, Tier 1 and 2 commodity charges; and

WHEREAS, Upper District requested that MWD continue its Standby Charge in Upper District's service area with the intention that the above referenced Readiness-to-Serve charge be paid from the funds generated from said Standby Charge for calendar year 2009; and

WHEREAS, during Fiscal year 1991/92 Upper District entered into an agreement with MWD for the enlargement of the discharge valve on Service Connection USG-3. As part of this agreement, MWD will charge Upper District an additional \$2.00 per acre foot for all water delivered through this enlarged discharge valve. It is the intention of Upper District to incorporate this \$2.00 per acre foot charge into the rate established for delivery through Service Connection USG-3; and

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT as follows:

Section 1. Resolution No. 1-08-453 adopted January 3, 2008, is hereby repealed.

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Section 2. Effective March 1, 2009, the following water rates are established and will remain effective through December 31, 2009:

Class of Service	Rate per Acre Foot		
Full Service – Treated (Tier 1)	\$681.00		
Full Service – Treated (Tier 2)	\$808.00		
Groundwater Replenishment Service – Untreated	\$337.00		
Groundwater Replenishment Service – Untreated (Rate for MWD cyclic storage deliveries pre-purchased in 2008)	\$251.90		
Full Service – Untreated (Tier 1)	\$450.00		
Full Service - Untreated (Tier 2)	\$577.00		
Recycled Water Service	By Contract		
Excess Annual Capacity Charge	\$6,800 per CFS		
Minimum Service Connection Charge (per year)	\$680.00		
Groundwater Replenishment Ready-to-Serve Charge	\$42 per CFS/\$6,300 per		

Section 3. Description of Service Classes:

Full Service Treated (Tier 1)

For Calendar Year 2009 the Upper District has an allocation of Full Service Tier 1 supply of 16,511.6 acre feet at a rate of \$681.00 per acre foot. That fixed supply will be equitably allocated to all treated water service connections at the end of Calendar Year 2009. Service connections utilizing supply exceeding the aforementioned allocation will be subject to Tier 2 charges.

Full Service Treated (Tier 2)

For Calendar Year 2009, the Upper District will have an unlimited allocation (subject to drought restrictions) of Full Service Tier 2 supply. Once the total allocation of Tier 1 supply is utilized, all treated water sold will be at the Tier 2 rate of \$808.00 per acre-foot for the remainder of the calendar year.

Excess Annual Capacity Charges

The Full Service Tier 1 rate per acre foot as well as the Full Service Tier 2 rate per acre foot assumes an annual maximum daily average capacity usage* per acre foot of 0.0034 cubic feet per second. Sub-agencies that exceed the 0.0034 CFS/AF threshold will be subject to annual excess capacity charges. Excess capacity charges will be calculated as \$6,800 for each CFS of *May through September only.

excess capacity utilized during the period of May through September 2009 and will apply for three years.

Groundwater Replenishment Service (Untreated)

The rate for untreated groundwater replenishment service will be \$337.00 per acre foot. This service will be provided at service connection USG-3 and be subject to supply availability as determined by the Metropolitan Water District. The timing and rate of delivery (CFS) for this service shall also be subject to operating restrictions imposed by the Los Angeles County Department of Public Works. The rate for untreated groundwater replenishment service that was pre-purchased by the Upper District during Calendar Year 2008 from the MWD cyclic storage will be \$251.90 per acre foot.

Full Service Untreated (Tier 1)

The Upper District's base year Tier 1 allocation is 16,511.6 acre feet. That total includes both treated and untreated Tier 1 deliveries. As a matter of policy, the Upper District will give preference to Tier 1 treated deliveries over untreated deliveries. Full service untreated deliveries will be billed at the Tier 1 rate of \$450.00 only if there is sufficient allocation remaining after all full service treated deliveries have been accounted for. In the event that the Upper District base year allocation has been fully subscribed for the calendar year, all full service untreated deliveries will be subject to Tier 2 charges.

Full Service Untreated (Tier 2)

For Calendar Year 2009, the Upper District will have an unlimited allocation (subject to drought restrictions) of Full Service Tier 2 supply. Once the total allocation of Tier 1 supply is utilized, all untreated water sold will be at the Tier 2 rate of \$577.00 per acre-foot for the remainder of the calendar year.

Section 4. Cost of Service Model:

The District has prepared a cost of service model for the period 2008 through 2014. The model includes forecasted treated and untreated water demands, anticipated costs, probable water rates, expected cost recovery and a reasonable application of rate stabilization funds. Future actual costs and rates may vary from those presented in the model. However, the model offers a

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reasonable budgeting and planning tool for the District and its sub-agencies. The Board will periodically review the model to validate or modify assumptions to provide for the most rational projection of future costs and rates possible. The model presented in Exhibit A is incorporated herein by reference.

Section 5. Each groundwater replenishment customer shall pay a monthly ready-to-serve charge in addition to the water rate for groundwater replenishment service. This monthly readyto-serve charge will be \$42.00 for each cubic foot per second of groundwater replenishment service connection capacity, at an amount not-to-exceed \$6,300.00 per month, payable in advance.

Section 6. A minimum charge equivalent to ten percent (10%) or one-tenth (1/10) of the value of one CFS of capacity (\$6,800), which equals \$680 for calendar year 2009, will be billed to the sub-agencies prorated on a monthly basis irrespective of the amount of water used.

Section 7. All sales, deliveries and availability of water at the rates established herein shall be subject to the ability of the Upper District to sell, deliver and make available such water under operating conditions determined by the General Manager of Upper District and of MWD, and subject to the water service regulations of Upper District and of MWD. All agencies that purchase treated or untreated water must comply with all rules, requirements, and regulations of Upper District Urban Water Management Plan adopted on or about December 2005 and any amendments or supplements thereto.

Section 8. The Board of Directors finds that the water rates and charges established herein will result in a fair and equitable revenue source to partially fund budgeted expenditures, thereby reasonably allocating costs of service to those who benefit therefrom.

Section 9. The Board of Directors recognizes that Southern California is facing water supply challenges arising from both ongoing drought and environmental factors. These factors have created uncertainty regarding the reliability of all sources of water for the foreseeable future. As such, the Board reserves the authority to modify, alter, or suspend any or all sections of this resolution as determined prudent to properly respond to new developments in water supply circumstances.

Section 10. The Secretary of Upper District shall cause a copy of this Resolution to be mailed to all current purchasers of water from Upper District including the users of water replenishment service connections.

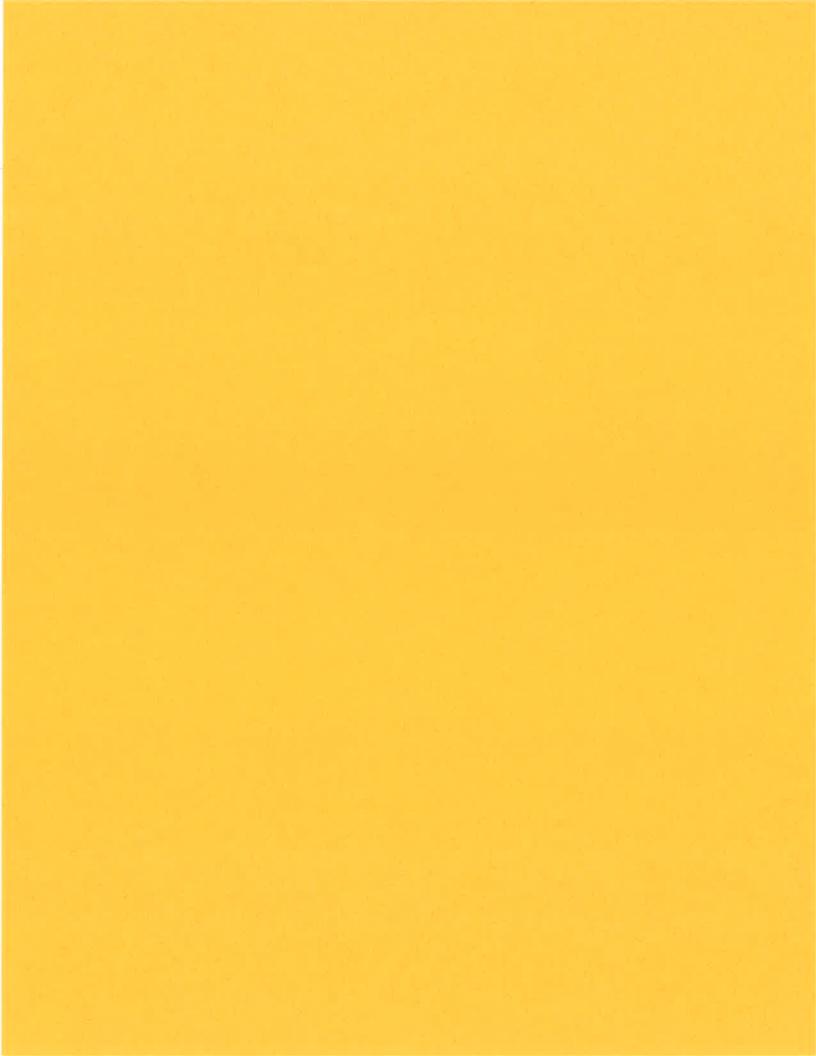
PASSED, APPROVED AND ADOPTED this 17th day of February, 2009.

Clefenso Conturas
PRESIDENT

ATTEST

SECRETARY

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RESOLUTION NO. 4-95-333

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT REPEALING RESOLUTION NO. 5-94-321 ADOPTING WATER RATES FOR THE 1995/96 FISCAL YEAR AND ADOPTING A WATER RATE FOR SEASONAL STORAGE WATER SERVICE FOR GROUNDWATER REPLENISHMENT FOR THE 1996/97 FISCAL YEAR

WHEREAS, The Metropolitan Water District of Southern California ("MWD" herein) has adopted water rates and charges for its classes and conditions of service for the fiscal year 1995/96 and this District wishes to reflect MWD's new rates and charges in the water rates and charges of this District; and

WHEREAS, MWD has established new charges in their fiscal year 1995/96 rate structure including a Readiness-to-Service Charge, a New Demand Charge and a Connection Maintenance Charge; and

WHEREAS, this District requested by its Resolution No. 2-95-332 that MWD continue its Standby Charge for fiscal year 1995/96 in this District's service area with the intention that the above reference new MWD charges be paid from the funds generated from said Standby Charge for fiscal year 1995/96; and

WHEREAS, during Fiscal Year 1991/92 Upper District entered into an agreement with MWD for the enlargement of the discharge valve on Service Connection USG-3. As part of this agreement, MWD will charge Upper District an additional \$2.00 per acre foot for all water delivered through this enlarged discharge valve. It is the intention of Upper District to incorporate this \$2.00 per acre foot charge into the rate established for Seasonal Storage Service Untreated Water delivered through Service Connection USG-3; and

WHEREAS, in order to accommodate the requirements of the judgement in <u>Upper San Gabriel Valley Municipal Water District v. City of Alhambra. et al.</u>, LASC No. 924128, and the customs and practices of the Watermaster, this District will adopt a seasonal storage service groundwater replenishment rate for fiscal year 1996/97.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF

THE UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT as follows:

Section 1. Resolution No. 5-94-321 adopted May 4, 1994, is hereby repealed. The water rates specified in said resolution, however, are hereby ratified, affirmed, and shall remain in full force and effect until July 1, 1995.

Section 2. Effective July 1, 1995, the following rates are established.

Class of Service	Rate per acre-foot
Noninterruptible Water Untreated Treated	361.20 447.30
Emergency Water Untreated Treated	1,083.60 1,341.90
Seasonal Storage Service Untreated Treated	242,45 302,30

The definition and application of the foregoing classes and conditions of service shall be the same as those established, interpreted and amended from time to time by MWD through its Administrative Code and such other rules, regulations, policies ordinances or resolutions that have been or may be adopted by the MWD Board of Directors, which are by this reference are incorporated herein and adopted for this District as though set forth herein in their entirety.

Section 3. Effective July 1, 1996, the rate for untreated seasonal storage service water for groundwater replenishment shall be 254.57 per acre-foot.

Section 4. In addition to the water rate for seasonal storage service water for groundwater replenishment, each groundwater replenishment customer shall pay a monthly ready-to-serve charge of \$42.00 for each cubic foot per second of groundwater replenishment service connection capacity, at an amount not to exceed \$6,300.00 per month, payable in advance.

Section 5. A minimum charge of \$25.00 per month will be made for all open service connections, irrespective of amount of water used.

Section 6. All sales, deliveries and availability of water at the rates established

herein shall be subject to the ability of the District to sell, deliver and make available such water under operating conditions determined by the General Managers of this District and of MWD, and subject to the water service regulations of this District and of MWD.

Section 7. The Board of Directors finds that the water rates and charges established herein will result in a fair and equitable revenue source to partially fund budgeted expenditures, thereby reasonably allocating costs of service to those who benefit therefrom.

Section 8. The Secretary of the District shall cause a copy of this Resolution to be mailed to all current purchasers of water from the District including the users of water replenishment service connections.

Dated this 19th day of April, 1995

PRESIDENT

ATTEST

SECRETARY SECRETARY

SEAL